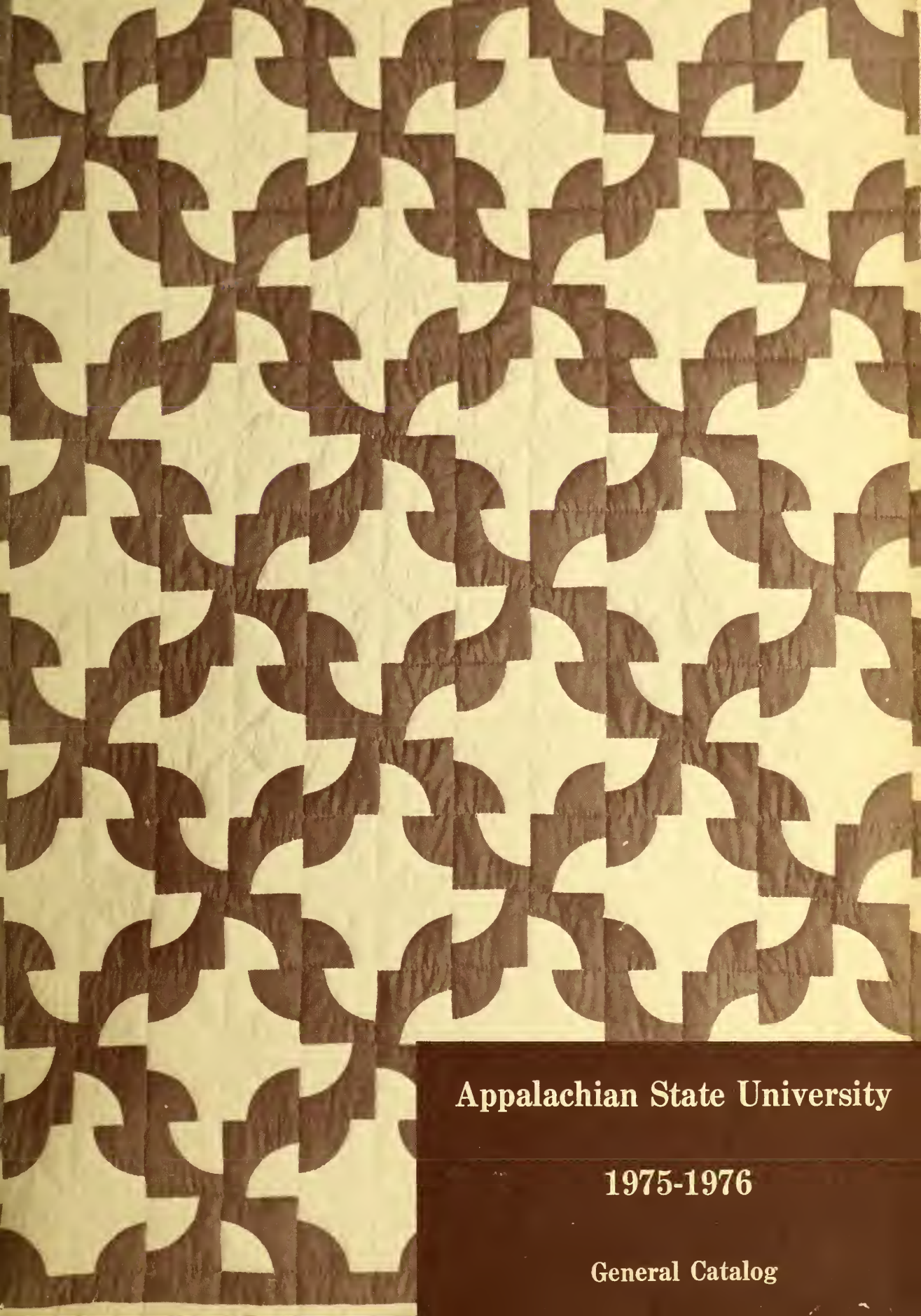

Appalachian State University

1975-1976

General Catalog

Academic Calendar for 1975-76

Fall Semester, 1975

August 24	Sunday, 8:00 a.m.—Official opening; dormitories open.
August 25	Monday—Faculty returns; fall semester general faculty meeting; college/departmental meetings.
August 26-27	Tuesday and Wednesday—Registration.
August 28	Thursday—Classes begin.
August 29-30	Friday and Saturday—Registration and first meeting of weekend college classes.

(Last day to register for a class is the second class meeting.)

October 20-24	Mid-term week.
November 26-30	Wednesday, 8:00 a.m.-Sunday—Thanksgiving Holidays.
December 1	Monday, 8:00 a.m.—Classes resume.
December 18	Thursday—Semester ends, last day of classes.
December 19-January 12	Christmas Holidays and semester break.

Spring Semester, 1976

January 11	Sunday, 8:00 a.m.—Official opening; dormitories open.
January 12	Monday—Faculty returns; spring semester general faculty meeting; college/departmental meetings.
January 13-14	Tuesday and Wednesday—Registration.
January 15	Thursday—Classes begin.
January 16-17	Friday and Saturday—Registration and first class meeting of weekend college.

(Last day to register for a class is the second class meeting.)

March 8-12	Mid-term week.
March 14-21	Spring vacation.
March 22	Monday, 8:00 a.m.—Classes resume.
April 16-19	Friday, 8:00 a.m.-Monday—Easter Holidays.
April 20	Tuesday, 8:00 a.m.—Classes resume.
May 12	Wednesday—Semester ends, last day of classes.
May 16	Sunday—Commencement.

Summer Sessions, 1976

May 31-August 13	(Outside limits of approximate dates; specified terms and sessions to be identified at a later date.)

Cover design by Edward Shell. The quilt made by Ora Watson is in the pattern known as "Drunkard's Path." The quilt is owned by Charlotte Ross, Appalachian Room Librarian. Photography by John Dinkins, University Photographer.

APPALACHIAN STATE UNIVERSITY GENERAL CATALOG ANNOUNCEMENTS FOR 1975-76

Boone, North Carolina 28608
July, 1975

ADDENDUM

Expenses

Pursuant to actions of the 1975 North Carolina General Assembly and governing bodies of the University, expenses currently applicable to 1975-76 are as follows:

Semester Tuition and Fees

Charges include tuition and fees applied to student welfare and activities, registration, other incidental fees and, for undergraduate students only, textbook rental.

	IN-STATE	OUT-OF-STATE
Undergraduate students	$272.25	$1,096.25
Graduate students	264.75	1,088.75

Semester Subsistence Charges

The basic subsistence charge for students residing on-campus, as shown, includes room (without telephone), minimum board (standard plan), and minimum laundry and dry cleaning fees. Students occupying rooms with telephones pay an additional $20.00. Upperclass students (sophomores and above) are offered two optional reduced meal plans. Subsistence charges for those selecting an optional plan are reduced by $60.00 or $120.00 depending on the optional plan selected.

BASIC SUBSISTENCE CHARGE
$527.50

Part-time Students

Students who register for 1 to 7 hours pay the following charges per semester hour:

In-State	$15.00
Out-of-State	60.00

Other Fees:

Late payment of tuition and fees $10.00
Late orientation test 2.00
Music
- Music majors (all applied instruction—per semester) 75.00
- Non-music majors (per credit hour) 35.00

Physical Education activity
- Bowling per course 8.00
- Skiing, ice skating and, from time to time, other class offerings use privately owned off-campus facilities. A charge is made by those facilities.

Student teaching and internships per semester hour 3.00
Examinations:
- The Counseling and Psychological Services Center administers the National Teacher Examinations, Miller Analogies Test, Graduate Record Examination and other examinations charging fees, when applicable, in accordance with the schedule of fees maintained in the Center.

Bachelor of Technology Degree

(Correction) On page 142 of the General Catalog, under the caption "Bachelor of Technology Degree," the numbered paragraph 3, sentence 2 should read as follows: "The areas of specialization include Industrial Arts Technology and Business Technology." The other areas of specialization listed in this sentence are not presently being offered by the University.

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Profile of ASU

Northwestern North Carolina was known as the "Lost Provinces" during the late 1800's. Weather permitting, formal education was conducted after the fall crops were in until it was time to plow. Education was, at best, minimal. In 1899, a two-story frame structure was built in Boone, a town of 200 persons. The people of the community contributed labor, materials and $1,100 to start a school. It was known as Watauga Academy offering instruction in grades one through eleven and in teacher training. Three courses were offered: Common School, Academic and Two Years Collegiate.

Watauga Academy grew steadily. In the winter of 1902 more than 100 pupils were enrolled, and 90 percent of those were grown people. Despite all the progress made, Watauga Academy had a precarious financial basis. The founders of the academy, D. D. and B. B. Dougherty, realized that without adequate financial support the academy would never be able to train enough teachers needed in the area. They turned to the state for help. B. B. Dougherty went to Raleigh carrying a bill proposing a state institution for Northwestern North Carolina. The bill was introduced and passed.

The Dougherty's won a major political and educational victory for the mountain region when, by a one-vote margin, the 1903 General Assembly created Appalachian Training School.

The Assembly changed the name of the institution to Appalachian State Normal School in 1925. In 1929 it became Appalachian State Teachers College. The enabling act which changed the name of the institution also authorized the conferring of college degrees.

Modest graduate programs began at the college in 1943, and in 1949 Appalachian's graduate school was sanctioned by the American Association of Colleges for Teacher Education.

It was not until 1957 that legislation was enacted to give permission to depart from its single-purpose role as a teacher-training institution. In 1965 the institution activated programs that led to a nonteaching degree. The next milestone of the institution came in 1967 when Appalachian was designated a regional university. Its purpose was set forth by the 1969 General Assembly as follows:

"The regional universities shall provide undergraduate and graduate instruction in the liberal arts, fine arts, and sciences, and in the learned professions, including teaching, these being defined as those professions which rest upon advanced knowledge in the liberal arts and sciences, pure and applied. The regional universities shall provide other undergraduate and graduate programs of instruction as are deemed necessary to meet

the needs of their constituencies and of the State. Regional universities insofar as possible shall extend their educational activities to all persons of the State who are unable to avail themselves of their advantages as resident students by means of extension courses, by lectures, and by such other means and methods as may seem to the boards of trustees and administrative officers as most effective."

In 1971, the structure of higher education in North Carolina was consolidated into a 16-member University of North Carolina system, efforts for which Appalachian supported.

The Corporate History of The University of North Carolina

The University of North Carolina was chartered in 1789 and opened its doors to students at its Chapel Hill campus in 1795. Throughout most of its history, it has been governed by a Board of Trustees chosen by the Legislature and presided over by the Governor. During the period 1917-1972, the Board consisted of one hundred elected members and a varying number of *ex officio* members.

By act of the General Assembly of 1931, without change of name, it was merged with The North Carolina College for Women at Greensboro and The North Carolina State College of Agriculture and Engineering at Raleigh to form a multicampus institution designated The University of North Carolina.

In 1963 the General Assembly changed the name of the campus at Chapel Hill to The University of North Carolina at Chapel Hill and that at Greensboro to The University of North Carolina at Greensboro and, in 1965, the name of the campus at Raleigh was changed to North Carolina State University at Raleigh.

Charlotte College was added as The University of North Carolina at Charlotte in 1965, and, in 1969, Asheville-Biltmore College and Wilmington College became The University of North Carolina at Asheville and The University of North Carolina at Wilmington respectively.

A revision of the North Carolina State Constitution adopted in November, 1970 included the following: "The General Assembly shall maintain a public system of higher education, comprising The University of North Carolina and such other institutions of higher education as the General Assembly may deem wise. The General Assembly shall provide for the selection of trustees of The University of North Carolina. . . ." In slightly different language, this provision had been in the Constitution since 1868.

On October 30, 1971, the General Assembly in special session merged, without changing their names, the remaining ten state-supported senior institutions into the University as follows: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, North Carolina School of the Arts, Pembroke State University, Western Carolina University, and

Winston-Salem State University. This merger, which resulted in a statewide multicampus university of sixteen constituent institutions, became effective on July 1, 1972.

The constitutionally authorized Board of Trustees was designated the Board of Governors, and the number was reduced to thirty-two members elected by the General Assembly, with authority to choose their own chairman and other officers. The Board is "responsible for the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." Each constituent institution, however, has its own board of trustees of thirteen members, eight of whom are appointed by the Board of Governors, four by the Governor, and one of whom, the elected president of the student body, serves *ex officio*. The principal powers of each institutional board are exercised under a delegation from the Board of Governors.

Each institution has its own faculty and student body, and each is headed by a chancellor as its chief administrative officer. Unified general policy and appropriate allocation of function are effected by the Board of Governors and by the President with the assistance of other administrative officers of the University. The General Administration office is located in Chapel Hill.

The chancellors of the constituent institutions are responsible to the President as the chief administrative and executive officer of The University of North Carolina.

Purpose

Within the framework of higher education established by the state of North Carolina, Appalachian State University is dedicated to the total development of its constituency through instruction, research and service. In pursuit of this purpose, Appalachian pledges itself:

To nurture an intellectual climate in which truth is sought and respected.

To provide a liberal education for all its students.

To offer, within the scope of its programs, preprofessional and professional education to those students who desire it.

To maintain a faculty dedicated to teaching and scholarship.

To advance the frontiers of knowledge through research.

To be cognizant of new knowledge and prepared to meet the challenge of new ideas.

To expand cultural horizons and develop appreciation of ethical and aesthetic values.

To make its resources available to the people within its sphere of influence.

To serve as a force for social improvement.

To cooperate with all institutions and agencies which are dedicated to the betterment of mankind.

Accreditation

The university is an accredited member of the Southern Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, the American Association of Colleges for Teacher Education, the American Council on Education, the Council of Graduate Schools in the United States, the North Carolina Association of Colleges and Universities, the National Association of Schools of Music, the American Association of University Women, the National Association of Business Teacher Education, and the American Association of State Colleges and Universities.

The Campus

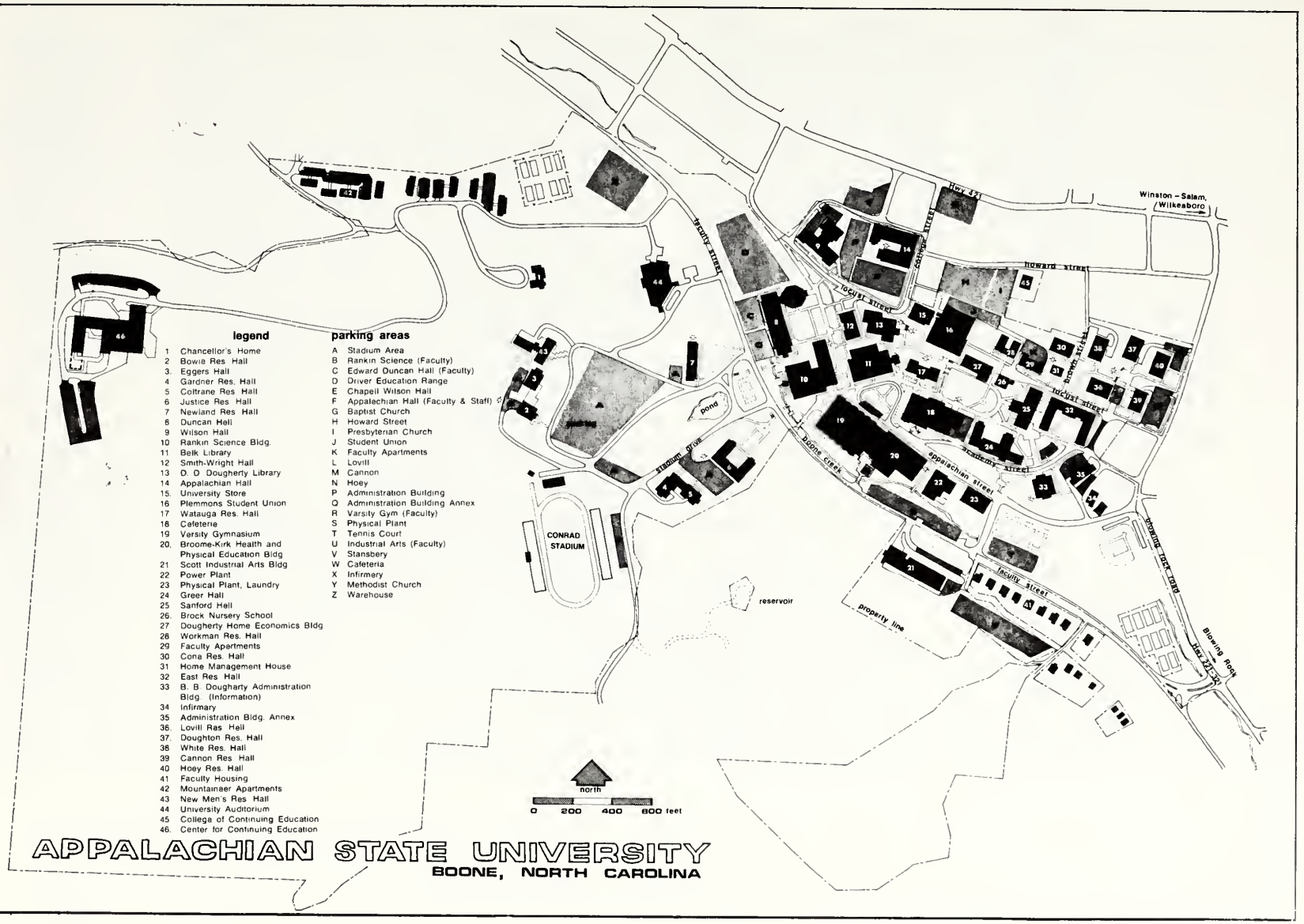
Appalachian's facilities include some 43 buildings located in its 75-acre main campus, as well as the Center for Continuing Education, the new University Auditorium, and Mountaineer Apartments, the married student housing, on the 180-acre new west campus area (see campus map).
During the decade of the 60's, enrollment tripled at Appalachian, leading to the construction of some 30 new major buildings and a complete change in the campus.

The university is on schedule for its master plan for an enrollment of 10,000 students. Future expansions will be concentrated on some 330 acres of outlying lands owned by the university, of which the new west campus area is a part.

The university welcomes and encourages prospective students, educators, alumni, and other friends to visit and tour the campus. Tours are arranged through the Student Affairs Office.

The Area

The Watauga-Avery County area is rapidly becoming the most popular year-round living-vacation area in the East. Boone, at 3,333 feet, is located in the heart of the Blue Ridge Mountains. The town of 8,754 grew some 137.75 percent during the 60's and Watauga County, of which Boone is the county seat, grew 33.5 percent during the decade. The area can make claim to being one of the few unspoiled areas in the Eastern United States. The Blue Ridge Parkway is six miles from campus. The average summertime temperature is 69 degrees and the day-time highs average in the low-to-middle 70's. Mount Mitchell, the highest point in the Eastern United States is some 40 miles away. Within half-hour's drive of the campus are six ski slopes, seven golf courses, and four major tourist attractions. The area is renowned for its beautiful native crafts and art forms and for fishing, hunting, camping, hiking, and nature trails.



APPALACHIAN STATE UNIVERSITY

BOONE, NORTH CAROLINA

Transitions of the 70's

Appalachian strives to keep its programs up-to-date and innovative so that the ever-changing challenges of higher education can be met. Some of these programs are outlined in the following paragraphs.

The Admissions Partnership Program

An experiment in methods of reducing the needless duplication between the senior year of high school and the freshman year of college began in the summer of 1972 when a group of 21 high school juniors were admitted as special students. These students took courses in general education, communications, social science and physical education. The students who maintained at least a C average were invited to return to Appalachian in the fall as regular students with credit for the work done in the summer.

In the spring of 1973 the experiment was expanded into the Admissions Partnership Program, part of the General College, through a grant from the Carnegie Corporation of New York. It included three new phases and a control phase.

The three new additions were: (1) Two groups of approximately 30 students each (high school seniors) registered for a typical freshman curriculum (42 quarter hours for the year) taught on their high school campuses by Appalachian faculty members. These students were allowed to continue their studies as sophomores on the Appalachian campus the following fall on the basis of their regular academic retention standards. (2) A group of 60 regular Appalachian freshmen are being allowed to graduate in 3 years with a reduced number of quarter hours—the reduction being in general education and elective hours. These students were carefully advised in view of future goals as well as past experiences. (3) A group of selected students were allowed to by-pass their senior year of high school and were admitted to ASU as regular freshmen. These phases were replicated in 1974-75 and follow-up studies on the progress of the participants continue.

Each phase of the program is being thoroughly evaluated with the academic progress and related personal development of each student measured periodically by standardized tests. The results for the groups in each phase are being compared with one another and with an appropriate control group.

Urban-Rural Cooperative

This project, funded through the U.S. Department of Health, Education, and Welfare's Fund for the Improvement of Postsecondary Education has as its major concern the mutual exchange of experiences between people in both urban and rural settings. The project is co-sponsored with Winston-

Salem State University, which serves as the urban component of the project. The program design of the project is interdisciplinary in nature. It provides exchanges in areas such as education, sociology, political science, psychology and business. Opportunities are provided for internships for students at Appalachian State University to spend time in the community of Winston-Salem. Similarly, students at Winston-Salem State University will spend time in Boone and adjacent rural settings. The project also provides opportunities for exchange of faculty between the two institutions. The campus coordinator of the program is located in Duncan Hall and is available for additional information and advisement.

The Watauga College

An experiment in the residential cluster college approach began in the General College at Appalachian in the fall term of 1972 with the selection of sixty men and sixty women who had applied for participation from among the entering freshmen. They were housed in Watauga Hall. The original idea was to create the advantages of a small college within the larger university and to encourage a greater sense of community among students and faculty which it was hoped would promote learning and understanding. This original idea remains the adhesive of Watauga College. The program has since grown to include freshmen and sophomores. Its nearly 300 students now live in East Hall where its academic and social programs are located. Students take up to two-thirds of their academic studies for the year in interdisciplinary humanities, science, and social science courses which emphasize individualized and small group approaches to study. Students take on themselves more of the responsibility for the academic and social programs which provides some of the uniqueness of Watauga College. Faculty from the entire university elect to teach in this exciting approach to general education. With few exceptions, students and faculty find Watauga College stimulating, challenging, and rewarding. Ongoing studies of the program's effectiveness support this conclusion.

Office of Outdoor Programs

The Office of Outdoor Programs within the General College administers several programs using the Outward Bound concept of wilderness education in student and faculty activities. The office exists primarily for university sponsored wilderness expeditions which serve the academic areas. Wilderness experiences for courses in sociology, English, education, biology and others provide field references and interpersonal involvement for students not possible within the confines of the classroom.

The office delivers four semester hours credit to students who complete a full course at one of the six Outward Bound schools in the United States and coordinates staff development programs offered by these schools.

Foreign studies programs which offer college credit in the summer are now operational in the Outward Bound Schools of England, Scotland and Wales.

The Bachelor of Arts in General Studies

Some liberal arts graduates find their degrees qualify them for graduate school, not for a job. That problem led to a degree program at Appalachian that abolishes traditional major and minor requirements and allows the student to select a program of study that includes courses he needs for a specific career. The program is saying that the educational needs of some students who know exactly what they want to do following graduation are not best being served by existing major and minor programs. Courses of study for students in the program are approved by both the student and the faculty advisor and the Director of the General Studies Program.

Breakthrough

Based on the fact that some students who are capable of doing well in college do not meet traditional entrance requirements, the General College began a program five years ago which is now called Breakthrough. Some thirty students, chosen from recommendations by guidance counselors and from personal interviews, are accepted for the program each year. They come from minority and/or low income families and have poor backgrounds that have kept them from reaching their potentials. Students accepted in the program have had projected grade-point averages as low as .8 (below a D average), yet students in the first four years of the program have had almost as good a record of performance as that of their average fellow classmates. In 1973, the Office of Education awarded a Special Services grant to ASU to enable us to complement the Breakthrough Program. During the 1974-75 year, eighty-three students were given tutorial and counseling assistance. Half of the recipients are regularly admitted students who can benefit from the services offered.

During their first semester on campus, students take a reduced load (twelve hours), including English, reading, speech, and psychology, which are geared for individualized instruction and individual progress. After the first semester, Breakthrough students enroll in regular university courses. Although students are given no special consideration as far as grading is concerned after the first semester, tutoring is provided for those students who request it throughout the freshman year. In addition, the Special Services Office will assist the student in any way possible throughout his/her attendance here including providing information and counseling for career planning.

While need is determined on the same basis as for other students, most students in Breakthrough receive full financial aid—usually a combination of grants, loans and work study.

Upward Bound, a federally funded program designed to assist low-income high school students who have potential for postsecondary education, is also administered through the General College and Special Services Office. Approximately fifty students spend six weeks on campus, live in a residence hall and attend specially designed classes and generally get the feeling of college life. During the academic year the students are given special

counseling and tutorial help as they continue studies in their home high schools.

The Bachelor of Technology

The Bachelor of Technology is a program in which graduates of technical institutes and community colleges who do not meet traditional entrance requirements are accepted as juniors at Appalachian. The student's work at the two-year school counts as his major. The students take a general curriculum—English literature, history, speech, mathematics, education courses—and an internship designed to prepare them for specific jobs either as teachers in the two-year schools or for careers in business and industry. B.T. graduates can qualify for graduate school admission but not to admission to traditional B.A. and B.S. degree programs.

Internship Programs

Some 100 Appalachian students each term are studying off campus as interns in the classroom, and public agencies and in business and industry. The program recognizes that learning doesn't have to take place in the typical classroom-lecturer situation and that students need to make career plans early in their four years at Appalachian, not during that final term before graduation. Students work in internships usually during the junior year, while there's plenty of time for the student to change his course of study if he finds that he's studying in the wrong field. Appalachian's several internship programs are all coordinated with academic programs and all are based on the principle that students learn by doing. Internships have included three months' work in hospitals, the furniture industry, banks, and other businesses for College of Business students. Students in special education and physical education spend a term working and living 60 miles from campus at Western Carolina Center, a hospital for mentally and physically handicapped children. Biology interns work with the forestry service in a swamp in Georgia. In the summer, and principally through The Student Internship Program, interns work with government agencies both on the state and federal level. Students receive both academic credit and scholarship aid from their employers for the internship experience.

Independent and Individual Study, Course Challenge

More and more students at Appalachian are assuming the responsibility for the direction of their own education. It involves much more than just choosing from electives in the catalog. Through individual and independent study, students contract with a faculty member for specified amount of subject matter and proceed on their own to learn as much as they want to and as rapidly as they want to.

In individual study, the student can draw up a contract with a professor for any course offered at the university. He or she can attend class, do research, and get help and direction from the professor as the need arises. When the student satisfies the contract, he receives credit for the course.

Independent study works the same way, except that it allows the student to design a course of study for something not offered in the catalog. Another option available to the student is the course challenge system. It is based on the principle that it's a waste of time for a student to take a required course in something that he's already proficient in. Appalachian invites students to challenge any course in the catalog. For example, if a student can pass a test on the content of History 102, he gets credit for the course without having to take it.

Educational Satellite Program

The Appalachian Regional Commission (ARC) recently proposed an educational communications experiment in Appalachia to test the use of educational technology in improving classroom teaching skills. In conjunction with the U.S. Office of Education, National Aeronautics and Space Administration and Health, Education and Welfare, ARC plans to demonstrate the use of educational technology as a means to strengthen existing local education programs in Primary Reading (K-3) and Career Education (K-12) through the broadcast of educational programs into remote areas via the ATS-F television broadcast satellite which was launched in April, 1974. The initials stand for Applications Technology Satellite, with the F indicating that it was the sixth in a series launched since 1965 by NASA to demonstrate the principle that space vehicles can do certain complex, large-scale jobs that cannot be performed as well, or at all, by earth-based systems. The delivery system for distributing the instructional programs is designed to link teachers at five Regional Educational Centers. Appalachian State University is a part of the DILENOWISCO Center which is further divided into a rural emphasis at Stickleyville, Virginia, a university location in Boone, and a mountain, non-college village at Norton, Virginia. After March, 1975, the ATS-F satellite will be repositioned for broadcast into India.

Joint Appointee Program

More than three-quarters of Appalachian State University's students are prospective teachers. Preparation for their future professional lives is the responsibility of the entire university and requires constant evaluation and improvement.

To produce outstanding teachers for the public schools ASU provides students with a balance of subject area knowledge, appropriate teaching methodology, and practical experience. To achieve such a balance each academic department which offers majors in teaching appoints a departmental coordinator for teacher education. This person holds a joint appointment within his present college and in the College of Education. He is responsible to his present department chairman and to either the Chairman of Childhood Education or Secondary Education.

The departmental coordinator:

1. has active responsibility for all aspects of the department's teacher education curriculum, practices, and counseling,
2. maintains active contacts with public schools and with appropriate professional organizations,
3. supervises or helps to secure qualified departmental and public school personnel to join with College of Education personnel in supervising departmental student teachers,
4. leads in the continual up-dating of departmental teacher education curricula in accordance with state guidelines and known professional requirements (such as competency based teacher education program),
5. constantly monitors progress of departmental teaching majors to identify individual strengths and weaknesses and insure quality control of candidates,
6. plans and conducts exit requirements for departmental teacher education graduates (a requirement under present state guidelines),
7. conducts follow-up studies of graduates in the field.

Driver Education Program

An experimental program of producing driver education teachers, underway at Appalachian, could result in better certification standards for driver education teachers and better instruction in driver education for high school students at a lower cost to the state. In the past, certification requirements for driver education teachers have been based on a single three-hour course. Appalachian's new program, now in its second year, provides a minimum of 15 course hours credit in traffic and safety instruction. Future teachers learn to teach by using campus facilities such as a driving course complete with a skid pad, computerized driving simulators and special classrooms that house instruments to measure reaction time, depth perception and peripheral vision. The use of this multiphase program permits teachers to give better instruction to each pupil in less than half the time currently required. The N.C. Department of Public Instruction hopes to use Appalachian's program as a model for a new set of certification requirements for driver education teachers. The program is financed through grants from the U.S. Department of Transportation and the Governor's Highway Safety Program.

Special Service Programs for the Region

All programs at Appalachian are designed with the end result of service to the state and particularly to Northwestern North Carolina. By improving the teaching-learning act, the above-mentioned general and teacher education programs serve to produce better graduates to meet labor requirements in private business, industry, teaching, and other phases of public service.

Several other programs at Appalachian are of direct service to Northwestern North Carolina in improving the education and environment of its people. The following tells of several of these programs.

Division of Community and Regional Services

The Division of Community and Regional Services is a service component of the College of Continuing Education at Appalachian State University. The division works cooperatively with the various colleges, divisions and departments on the Appalachian campus and serves as a liaison between the university and the region in educational services. It also acts as both a major sponsor and in consortial arrangements with other institutions or agencies in service-oriented projects.

The division consists of five major institutes or bureaus: Health and Habilitative Services, Postsecondary Educational Services, Governmental Services, Elementary and Secondary Educational Services and Business and Industrial Services. Each component works cooperatively with a specialized group of agencies and/or businesses together with related segments of the university to provide educational and consultative services. The responsibilities of the institutes or bureaus encompass three areas: service-oriented projects, clusters and teams. A service-oriented project is usually a program funded for a specific purpose such as the Appalachian Developing Institutions Consortium, consisting of fourteen community college institutions in Western North Carolina working cooperatively with each other and Appalachian State University. The Title I Planning and Land Use Education Project sponsors workshops on historical preservation and community development and educational programs for public officials and other citizens. The material assessment project, sponsored by the March of Dimes, has reached many disadvantaged mothers in Western North Carolina and continues to provide services designed to reduce birth defects.

The cluster designation refers to an organized off-campus program of study where students may complete a predetermined unit of study. The cluster approach is readily adaptable to the field-based degree program, certification program and in certain non-credit areas.

Teams specializing in areas such as labor relations, motivation, communication, community education, personal development, or service occupations provide the division with a trained staff for seminars, workshops, training sessions and consultant services.

The primary goal of the Division of Community and Regional Services is to function as a clearinghouse and to assist the various units of the university and community in providing an effective service component for the region. Contact Director, Division of Community and Regional Services, ASU, Boone, N.C., 28608, for further information.

Southeastern Appalachia Regional Hospital Data Center

The Southeastern Appalachia Regional Hospital Data Center, Inc., SARHDC, is a consortium of area hospitals and Appalachian State University which share a computer based accounting system. Grants were made to establish the consortium by the Kate B. Reynolds Health Care Trust and the Duke Endowment.

Under these grants, ASU's Computer Center will be expanded to provide inpatient accounting, outpatient accounting, accounts receivable, payroll, personnel and cost reporting, and cost allocation reporting for member hospitals. In addition, the center will provide for data analysis as well as accounting and general management for Blue Cross, Medicare and Medicaid.

Integrated within this system will be opportunity for majors in Computer Science, Accounting, Business Administration, and Health Care Management to receive experience with computer based hospitals and health care operations.

Northwestern Regional Media Center

Motion picture films for six county and one city school system in the region are housed in the Northwestern Regional Media Center of Appalachian's Belk Library. The 52 schools of the center have pooled their resources with those of the university to gain a bank of some 2,700 films. The center gives one-week delivery service on films and also cleans and repairs films. It also provides a much-needed repair service for audiovisual equipment of the school systems—a service which has proven to save the schools both time and money in repair of equipment.

Some 25,000 school children view the 900 films sent out each month, and another 300 films are used by Appalachian students and faculty each month.

Appalachian Developing Institutions Consortium

Appalachian Developing Institutions Consortium, a voluntary association, consists of twelve two-year community colleges and technical institutes in the mountain region. Appalachian is serving as the assisting institution in efforts to develop cooperative programs and resources that enhance educational opportunities and assist persons in overcoming many of the depressed conditions of the area. The consortium has emphasized, through applied research studies, interinstitutional planning that is related to the career goals of 13,000 high school seniors and the business-industrial manpower needs of twenty Western North Carolina counties. The consortium has plans for broader instructional and curricular development programs as an incorporated, non-profit organization to be known as the Western North Carolina Consortium. The consortium has been supported by a $250,000 Title III grant.

Appalachian Consortium

As a voluntary association of seven mountain region colleges and universities and four service agencies located in Western North Carolina, Eastern Tennessee and Western Virginia, the Appalachian Consortium has as its purpose to preserve and promote appreciation in the culture of the region. The Appalachian Consortium is supported by public and private grants and member contributions. In 1974 the Consortium sponsored forums, festivals and work shops with special emphasis on traditions and environment. The Appalachian Consortium Press, a related organization, has published four books dealing with mountain life. Consortium schools jointly accept credits from other schools for courses dealing with Appalachia and are publishing an extensive compilation of library holdings about the Appalachian Region in the Fall of 1974. The Consortium will be host to the National Oral History Colloquium in Asheville in 1975.

Center for Management Development

The Center for Management Development is sponsored by the College of Business to extend the educational capabilities of the college and its faculty to persons in business, industry and other organizations. Programs offered by the Center for Management Development vary widely and are designed to meet the practical needs of working people. A major obejctive of the center programs is to identify and meet the educational and training needs of individuals and organizations within the general service area of the university. Specific programs can be designed for managers and personnel at any organizational level.

Many programs offered by the Center for Management Development are conducted on campus, utilizing the fine facilities of the Center for Continuing Education. Other programs are offered at locations away from Boone, as appropriate for the program participants. Programs developed in collaboration with associations and with individual organizations, as well as programs offered for open enrollment, are offered. Seminars of varying content and duration, periodically repeated courses, and courses offered off campus for academic credit are included among the center programs.

Student Life

One role of Appalachian State University is to provide opportunities for students to grow and to develop in many ways other than in the classroom. Students are adults and it is understood that they are intelligent enough and mature enough to properly conduct most things for themselves.

A Voice In Policy

At Appalachian higher education conducts its business through faculty-student-staff committees. Students are nominated for committee membership by the Student Senate. A student's voice carries the same value as that of a faculty member's, and in some cases, you may find students serving as chairmen of what formerly were faculty committees. Students now serve with their professors on committees for academic policy, admissions, business affairs, public programs, institutional research, public service, registration and calendar, research, student life, and traffic and campus management.

Student Development Center

As concrete evidence that the student is the most important being at Appalachian, the university has created an innovative Student Development Center with a full-time director and his staff.

The Student Research Union is a product of student ingenuity to which the Student Development Center lends technical assistance and advice. It investigates the hottest issues on the campus and publishes reports which lay facts before the student body.

Another agency under the administrative umbrella of student development is the Student Employment Service. This group contacts businessmen in the community and surrounding areas and arranges part-time jobs for students who cannot find enough employment on the campus.

Student development personnel also assist in the mammoth publications job which students carry out. The director serves as advisor to *THE APPALACHIAN,* the *RHODODENDRON,* and *COLD MOUNTAIN REVIEW.* In addition to the major publications, the staff gives advice and technical assistance to Student Printing Service, Student Photographic Service, and Student Typesetting Service.

Student Government Association

The Student Government Association and all student activities at Appalachian are open to everyone.

It's left to the student to determine what he or she wants to do and how involved in it he or she wants to get.

All undergraduate students at Appalachian are members of the Student Government Association. The organization is so expansive that everyone who wants to serve the student body can find a job for himself.

Governing Power

Students at Appalachian govern themselves through three branches of the Student Government Association. The executive branch consists of elected officers, the president, the vice president, the secretary, the treasurer, the attorney general, and the president's cabinet.

The legislative power of student government is vested in the Student Senate. Its membership is made up of students who are elected by a ratio of one senate seat per 150 undergraduate students.

The judicial power of student government rests in the Student Court. It is composed of nine student justices who are elected by the senate.

Students accused of violations have all those rights guaranteed under the U.S. Constitution. They are presumed innocent until guilt is proven; they may face their accusers and any witnesses; they may have open trials; they may appeal to higher courts; and they have the choice of being tried by the university's administration without being heard by the Student Court.

Students may be tried for violations such as academic dishonesty, disruption of activities, or for the violation of criminal statutes. A complete table of university regulations appears in the student handbook, *The Mountaineer.*

W. H. Plemmons Student Union

The Plemmons Student Union is the focal point of campus-student activities. Facilities and activities are provided for all members of the university who wish to pursue social, cultural and recreational activities.
The program of the Student Union is the responsibility of the Student Union Board, chaired by a student and composed of students, staff, faculty and administrative members.

The program of the Student Union includes cultural, educational and popular films selected and scheduled by the Films Committee. The Fine Arts Committee sponsors an annual Student Art Contest with purchase prizes in several categories. These works become part of the permanent Student Art Collection and are used to decorate many areas of the building.

The Student Union's Popular Programs and Dance Committees bring many nationally famous groups to campus throughout the year. Recent concert appearances have included Crosby and Nash, Goosecreek Symphony, Count Basie, Earl Scruggs Review, Seals and Croft, and Blood, Sweat and Tears. Dances have featured Kallabash, The Impressions, Cornelius Brothers and Sister Rose, and Vince Vance and the Valiants. The Black Cultural Committee sponsors varied programs and maintains the Black Cultural Lounge

in the Student Union in order to bring an awareness of Black culture and history to the ASU campus. The Video Tape Committee provides an alternate video experience by using one-half inch video equipment. Unique, prerecorded materials are presented. These materials provide a new tool for communication for the community. A program of regular nightly coffeehouse entertainment is sponsored in the Wit's End by the Coffeehouse Committee. Shows range from local talent to professional touring entertainment. The Recreation Committee initiates and promotes campus and regional competition in chess, bridge, bowling, billiards and table tennis. Services provided in the Union include a television lounge, meeting rooms, table tennis room, music listening area, reading lounge, bowling and billiards area, and various other games. Information desk hostesses direct building utilization and supply information concerning all campus activities during the normal 16-hour day, seven-day week the Union is open.

As members of the Association of College Unions-International, members of the Student Union Board have been active in the Region V Annual Student Conference where yearly plans are made and program innovations are discussed.

Cultural Opportunities

Nearly every day of the school year, there is some contribution to the cultural element of education under sponsorship of the university's Artists and Lecture Series or some other campus organization. Recent visitors to the ASU campus have been: Margaret Mead, Tom Wolfe, John Brodie, Robert Penn Warren, The Continental Theatre Company, The All-Nations Dance Company, The Charlotte Symphony, The Danish Gym Team.

Through the Office of Student Affairs, a member of the faculty serves as Director of Cultural Affairs. He directs the university's Artists and Lecture Series, stimulates and coordinates the efforts of persons who are working to improve the cultural atmosphere on campus and prepares grant proposals in the area of the cultural arts.

Campus Entertainment

The student body at ASU is large enough to support an almost weekly array of professional entertainment in concert, in person. ASU's 8,000 seat Varsity Gym is the scene for many of the entertainers. The Popular Programs Committee of the Student Government Association sponsors the shows.

The ASU student has recently heard Goosecreek, Crosby and Nash, Count Basie, Charlie Byrd, Earl Scruggs Revue, Seals and Croft, the Maynard Ferguson Band, Gordon Lightfoot and Blood, Sweat and Tears.

Student Publications

Students publish a completely uncensored student newspaper, *The Appalachian,* often 12 to 14 pages, twice a week. With purchased typesetting

equipment, the students set their own copy, set their own headlines, paste up the pages of the newspaper, and carry it, "camera ready," to an off-campus printer. The job they do is highly professional, and because of what they're learning after classes, some have stepped into professional lithographic jobs with little additional training.

The university's year book, *The Rhododendron,* is similarly composed on the campus and taken to the professional printer only when it is ready to be printed.

Clubs, Societies, and Performing Activities

There are 96 different student organizations and clubs on the campus, including five recently recognized fraternities (three nationals) and three sororities. The clubs range from service orders to scholastic honoraries. All student organizations on the campus are chartered and supervised by the Student Government Association and the School Council. Opportunities also are available in areas such as debate, theatre, broadcasting, and music. Consult the student handbook, *The Mountaineer,* for a complete listing and description of activities.

Religious Life

Appalachian is a state-owned campus. As such it has no religious affiliation. Its students, however, promote and support church affiliated organizations which include the Baptist Student Union, Canterbury Club, Lutheran Student Association, Newman Club, Wesley Foundation, and Westminster Fellowship. Eight churches (Advent Christian, Baptist, Catholic, Church of Christ, Episcopal, Lutheran, Presbyterian, and United Methodist) are within walking distances of the campus.

Athletics and Intramural Sports

As a member of the Southern Conference and the National Collegiate Athletic Association (NCAA), Appalachian offers 13 varsity sports for men and seven varsity sports for women—the largest number of varsity athletic teams of any Southern Conference school and as many varsity teams as any school in the state. Men's varsity sports include: football, cross country, soccer, basketball, wrestling, rifle, swimming, gymnastics, track (indoor and outdoor), tennis, baseball and golf. Women's varsity sports include: field hockey, basketball, volleyball, gymnastics, swimming, golf and tennis. The university adheres to HEW Directive, Title IX which is expected to add a new dimension to women's collegiate athletics in the future.

Each year, over 50 percent of Appalachian's student population participates in the university's expanded intramural sports program. A wide variety of activities, selected by the students themselves, is offered throughout the year. The program for 1975-76 will include sixteen men's, 12 women's, and 11 co-recreational sports. Varying from the "conventional" flag foot-

ball, basketball, softball, and tennis, to the "not so conventional" arm wrestling tournament and innertube river race, there is something for every student. The intramural office operates free play and equipment checkout programs on a daily basis. All of the university's athletic facilities, including the artificially-turfed Conrad Stadium, are utilized for intramural activity.

Student Housing

The university has 15 modern residence halls housing over 4,000 students in a living and learning atmosphere. The quality of residence hall life is of as much concern to the university as the quality of any academic program. In order to satisfy on-campus needs, the university reserves the right to utilize and assign spaces at its descretion.

To insure that quality, some changes have taken place recently in the dormitories. What used to be stark dorm lobbies are now coeducational lounges. There are specially prepared study areas and seminar rooms in the dorms now—so that some of the academic life of the campus can take place in the dormitory setting.

As you live in a residence hall, the university will try to help you develop an understanding of group living, a consideration for others, and an ability to live with people who are different from you.

The halls are staffed and supervised by professional personnel who are trained to create a friendly atmosphere in which students can enjoy life and feel a part of the university community.

Each room is equipped with the basic furniture, but you are expected to supply linens, blankets, rugs, pillows, curtains, and other personal furnishings according to individual taste.

Some appliances are allowed in the dorm room (lamps, small television sets, fans, small refrigerators, not to exceed .45 amps) but others are not (hot plates, toasters, percolators, heat lamps, roasters, irons and heaters). Popcorn poppers may be used only in kitchen areas. Irons may be used in laundry rooms. Your *Student Support Services Handbook* and *The Mountaineer* contain specific regulations and policies which govern residence hall life. Each student is responsible for knowing these regulations and conducting himself accordingly.

Housing Requirements

The residence halls are closed during vacation periods, and no occupancy of rooms will be permitted during this time. For those who must remain in Boone during a vacation period, the Dean of Students offers assistance in securing a room.

All freshmen and all sophomores are required to live in university-owned housing with the exception of those students living with parents or guard-

ian or those who are married and maintaining their residence near the university.

All students reserving rooms are subject to an academic year housing agreement. Students who reserve a room for the fall semester are obligated to pay room rent for fall and spring semesters as long as they are enrolled. Exceptions are made during the term of the housing agreement for students participating in off-campus field service programs and those students getting married during the term of the agreement.

If a residence hall student plans not to enroll for the spring semester, he must notify the housing office at least two weeks prior to examination week. If he does not give such notification, he will be billed for a semester's room rent.

Unless a student notifies the housing office that he will be late, he must occupy his dormitory room by the night of the first day's classes in each semester. Otherwise, the reservation for this space will be canceled, and he will be billed for a semester's rent. Limited exceptions to these rules appear in the *Student Support Services Handbook* and in the student handbook, *The Mountaineer.*

Room Reservations

Room reservation forms are mailed to new students following admittance by the Office of Admissions. Returning students may apply for housing during spring semester for the following year. Former students who have been readmitted may apply for housing directly to the Office of Housing Operations. Completed forms should be returned to the university cashier with a check for reservation deposit payable to Appalachian State University. The reservation deposit is deducted from the room rent charged for the first semester in residence.

Mountaineer Apartments

The university provides 90 furnished apartments, including drapes, built-in self-cleaning ranges, frost-free refrigerators, and wall-to-wall carpeting. Rental information and applications may be obtained at the Office of Housing Operations. The apartments are available to married students and their dependents and widowed or divorced students with children.

Off-Campus Housing

An Approved Rental Housing Association is sponsored by housing officials at Appalachian. The association is composed of landlords who operate their complexes within the bylaws of the association. A current listing of approved off-campus housing is published and made available weekly by the housing office.

The Office of Housing Operations provides a current listing of rental housing for student teachers and students participating in field service programs off campus.

University Medical Services

Appalachian maintains a modern medical center on campus. It is staffed by physicians, registered nurses, lab and X-ray technicians, and their assistants. For overnight treatment of minor illness there is a 14-bed infirmary. For those who require hospital care, the modern Watauga County Hospital is just two miles from campus.

Services of the medical center are open 24 hours a day to all students when the university is in session. The center is supported by a portion of the fees paid each semester by all students and there is no additional charge for professional services of the physicians. All students, including transfers and graduate students, must have a preadmission physical by their own physician, and the form for same must be on file in the university medical center.

Contacts with University Medical Services are confidential. Records are maintained separately for use of health personnel only. In case of serious illness or injury parents or guardians will be notified.

The medical center does not issue excuses for class absences because of illness. Students who withdraw from the university for reasons of health must receive medical clearance through the medical center before being readmitted. Before clearance is granted, the student must present evidence that the condition which necessitated withdrawal has improved and that there is reasonable expectation of his ability to participate in university life.

Insurance

Low-cost hospital and accident insurance is available. This insurance will pay a substantial part of charges for hospitalization, surgery, treatment for accidental injuries, diagnostic tests, and medical emergencies. It provides year-round coverage on or off the campus.

In addition, the University Medical Services will pay the first $25 toward the hospital bill of any student admitted to Watauga County Hospital. This payment is not made for dependents of students.

Counseling and Psychological Services Center

The Counseling and Psychological Services Center, known as the Counseling Center, provides a setting where students may utilize the benefits of a relationship with a skilled and experienced counselor. Within the context of this confidential relationship, they may discuss questions ranging from those related to educational-vocational decisions to those which are extremely personal in nature. Students also may choose to utilize a group

approach to self study in addition to, or as an alternative to individual discussions.

The testing section of the Counseling and Psychological Services Center has the responsibility of organizing and administering the individual and group tests for the university community. Available tests include individual intelligence, personality tests, and vocational interest inventories. Information concerning large group tests such as National Teacher Examinations, Miller Analogies Test, CLEP, and university proficiency tests is also available.

Academic Advisory Program

A new Faculty Advising Service is operated by the General College on the ground floor of the D. D. Dougherty Library. The service retains professors who represent every undergraduate academic department at the university. They provide help with any academic problem that the student may encounter.

Each student accepts the responsibility for meeting graduation requirements, and although academic advising is readily available, students are not required to see an advisor or to get signatures on course request forms. When students complete 40-44 semester hours and satisfy other requirements, they move from the General College to one of the four degree granting colleges. They are then advised in the department of their major.

Library Services

The Belk Library is the center of academic life at Appalachian. Housed there in open stacks are 285,000 volumes and holdings in nonbook materials such as films, slides, tapes, recordings, magazines, newspapers, microfilms, maps, and pictures. The university's Audiovisual Services Center is located on the first floor and it provides resources and materials to support the university's instructional program. Audiovisual materials can be prepared for faculty and students on request.

The library is a U.S. Government Documents Depository and some 50,000 documents are housed in the library.

Information on the special collections and regulations concerning the loan of library materials are listed in the *Library Handbook.* It is issued to all faculty members and students.

Placement and Career Services

Appalachian operates a busy Office of Placement and Career Development to help alumni and prospective graduates find jobs. The office maintains relationships with outstanding school systems, colleges, industries, and local, state, and federal governmental agencies across the country. The office keeps up-to-date information regarding vacancies, certification and license requirements, and qualifying examinations. The office arranges

for interviews between students and employers. Students and alumni may participate in a nationwide computerized placement service.

Because the use of the placement service is voluntary, a student or alumnus is permitted to request in writing the destruction of any or all confidential statements or recommendations.

Postal and Banking Services

A U.S. Post Office Contract Station is maintained by Appalachian in the Plemmons Student Union. Every on-campus student has a personal mailbox there, but boxes are not available for off-campus students.

A branch of the Northwestern Bank is located in the lobby of the University Bookstore.

Laundry Service

A nonprofit laundry plant is operated on the campus and is used extensively by students, faculty, and staff. It provides all the services of a commercial laundry-dry cleaning plant, including daily pick-up and delivery in each dormitory. On-campus students whose laundry service charge is in excess of the minimum fee will settle their accounts with the Cashier's Office. Clothes should bear permanent name markings to avoid confusion in the laundry. Cash and carry service is available to off-campus students.

Motor Vehicles

Everyone who operates a car or other motor vehicle on campus must register it with the university's Traffic Office. There are no exceptions.

Freshmen and sophomores not residing with immediate relatives, all students on academic or disciplinary probation, and all students who have a grade-point average below 2.00 are prohibited from registering, maintaining, or operating a motor vehicle on the campus or its environs.

Those who are eligible to drive on campus apply for parking privileges on registration day as a part of academic registration. Any student who must operate a vehicle on campus after registration day, no matter how short the period, must register the vehicle at the Traffic Office before it is driven on the campus.

A student may not register a vehicle that was or is owned or used by another student, unless ownership of that vehicle has been transferred and proof to that effect can be shown. No one may register a vehicle for a freshman student. The annual automobile registration fee is $9 for fall semester registrants. Adjusted fees are in force for those who register automobiles during other terms.

Food Services

Appalachian owns and operates its own Food Service in four separate campus facilities: the University Cafeteria, offering a variety of foods

to select from; the Bavarian Inn, a fast food operation; the Gold Room, for leisurely steak and seafood dining; and the Ice Cream Parlor for the sweet tooth. Mealbooks and cash are both negotiable in each area. Food Service operates its own Bake Shop to provide "homemade" desserts. Student employment is encouraged and the areas of Food Service are used as a practice lab for students in business and home economics.

Reading Center

The university's Reading Center provides diagnostic and remedial services in reading for Appalachian students and for others in the region who want and need assistance in becoming more proficient readers. The center also serves as a laboratory for students in the teacher preparation program.

Computer Center

Appalachian's Computer Center operates a UNIVAC Series 70/46, consisting of nine disk files, four tape drives, three printers, two card readers and one card punch, and an IBM 1130 computer. The system supports numerous teletype and video terminals and graph plotters utilizing various on-line management information systems, interactive time sharing systems and programming systems for research services.

The center provides both administrative and academic computing support for the university and the region. The student section of the center remains open 24 hours a day, seven days a week for student and faculty use. There is a substantial array of unit record equipment which is operated by computer center personnel. A student operated card reader/printer complex allows students to operate programs with instantaneous processing. Both faculty and students have convenient access to teaching, research and public service aspects. Consulting services also are provided by the center to all students.

Admissions

Appalachian seeks to admit students who are capable of mature, college level work. As a state-supported institution, the university recognizes its obligation to provide educational opportunities to those who will benefit from them. Considerations of space, availability of housing, and other limitations, however, place some restriction on the number of students who can be admitted to the university. For this reason, students are requested to apply as early as possible. Freshmen are particularly urged to apply early since all unmarried freshmen, except *bona fide* residents of Boone and vicinity, are required to live in residence halls. As space in these halls is limited, this is a factor which must be considered in admitting freshmen.

Appalachian admits students at the beginning of the fall, spring and summer terms. Any person who wishes to enter the university as either a freshman, transfer, or special student should write to the Director of Admissions, Appalachian State University, Boone, North Carolina 28608, for full information and application forms.

Freshman Students

Applicants will be considered for admission to the freshman class upon meeting the requirements specified below. Those students who have demonstrated the greatest probability of success will be given priority in the selection of the freshman class. Requirements are as follows:

1. Graduation from an accredited high school and rank in the upper 75 percent of their graduating class. If the applicant is not a high school graduate, a high school equivalency certificate is required.
2. Satisfactory recommendation by the high school principal and/or guidance counselor.
3. Presentation of at least two units of high school mathematics (2 units of algebra or 1 unit each of algebra and geometry).
4. Satisfactory scores on the College Entrance Examination Board Scholastic Aptitude Test.

   This test is required of every applicant for freshman admission and is given in November, December, January, March, May, and July. End-of-junior year (in high school) scores are used to determine eligibility for freshman admission when reported with early applications. It is recommended that the test be taken at the end of the junior year of high school and repeated early in the senior year of high school.

   A student wishing to take this test should procure an application form from his secondary school or should write directly to the College

Entrance Examination Board, Box 592, Princeton, New Jersey, for the *Bulletin of Information* which includes an application form and is available without charge. The bulletin lists test centers and gives complete information concerning tests.

The student must make his own arrangements well in advance of a selected testing date so that his application is received in Princeton before the deadline for filing applications.

5. Each prospective student must submit a satisfactory health record. The complete medical history of each applicant must be submitted on the medical form supplied by the Admissions Office after approval has been given.

NOTE: Prospective students who have attended an accredited college but who have earned less than 30 semester hours of credit must meet both freshman and transfer admission requirements. This means that in addition to following procedures for freshmen they must present a transcript showing an overall C average on all college course work. In addition, such applicants must be eligible to return to the institution last attended.

Transfer Students

1. Students seeking to transfer from other colleges or universities must furnish official transcripts of records from all institutions attended. These transcripts must show eligibility to return to the institution last attended and an overall 2.00 or C average on all course work. Courses satisfactorily completed in other accredited institutions are evaluated in terms of the curriculum selected at Appalachian.
2. Transfer applicants who are candidates for teacher certification must meet the same proficiency tests in reading, speech, and written English as required of regular students at Appalachian. This is taken either at orientation or shortly after registration.
3. Each transfer applicant must submit a satisfactory health record. (The complete medical history of each applicant must be submitted on the medical form supplied by the Admissions Office after approval has been given.)

NOTE: Prospective students who have attended an accredited college but who have earned less than 30 semester hours of credit must meet both freshman and transfer admission requirements. This means that in addition to following procedures for freshmen they must present a transcript showing an overall C average on all college course work. In addition, such applicants must be eligible to return to the institution last attended.

Special Students

(Not Applicable to Freshman or Transfer Candidates)

1. Applicants who are mature and who may not meet admission requirements, but who have a satisfactory record of experience and education,

may be admitted to courses which they may be able to pursue with profit. Special students are admitted for one term only.

2. Such applicants may be required to present evidence of having earned a college degree or evidence of the need for specific courses. Applicants who are regularly enrolled students at other institutions may be admitted as "visiting" students provided the appropriate official at their institution authorizes their attendance at Appalachian, approves the course work selected, indicates the individual is in good standing at that institution, and otherwise approves the transfer of credits taken at Appalachian back to that institution for degree purposes. At the end of one term's work, visiting students must transfer to Appalachian or withdraw from the university.
3. Special students who desire to become candidates for a degree from Appalachian must satisfy appropriate admission requirements.

Four-Year Policy

Beginning with the fall term, 1974, Appalachian implemented an admissions policy directed toward adults who may or may not meet the university's normal admission requirements. The policy states that an individual who has not been formally enrolled in either secondary or collegiate education for a minimum period of four (4) years will be admitted without regard to normal academic qualifications. The policy has two pertinent stipulations: First, in the event the applicant did not finish secondary school he/she would be required to successfully complete the high school equivalency examination (GED test). Second, students with prior collegiate work would receive credit toward graduation in a manner consistent with the university's normal transfer policy.
The application procedure under this policy is the same as that indicated for either a freshman or transfer.

Graduate Students

For admission and graduation requirements, see the Graduate School section of this catalog.

Auditors

1. Students enrolled at the university or students admitted with satisfactory records of experience and education may enroll for specific courses as auditors.
2. Students who audit courses must register in the Registrar's Office, pay regular fees, be regular in attendance, but will not receive grades or credit.

Procedure

Students who wish to be considered for admission to the university as freshmen will obtain from the Office of the Director of Admissions an

application packet, consisting of an application form, high school transcript, principal's recommendation form, and instructions for completing and submitting these forms.

All application forms are to be accompanied by an application fee of $10.00 which is not refundable.

Applicants should request the Educational Testing Service to send results of the Scholastic Aptitude Test to the Director of Admissions.

Students who desire to transfer to Appalachian from another college or university will obtain from the Office of the Director of Admissions an application packet consisting of an application form, dean of students recommendation form, and instructions for completing and submitting these forms.

After all papers have been filed and evaluated, a statement of eligibility for admission or a statement of shortages to be removed before admission can be approved will be sent to the applicant.

Instruction for reserving residence hall space will be included in the letter of approval sent to each qualified applicant. Room assignments are made by the Office of Housing Operations.

Advanced Placement Program

Appalachian participates in the Advanced Placement Program of the College Entrance Examination Board. Freshmen who have demonstrated their achievement on specific College Entrance Examination Board Advanced Placement Tests may have the results submitted to the university for consideration with regard to placement in advanced courses and for college credit. Freshman applicants are encouraged to take these tests. Freshmen may also qualify for advanced placement and credit by being invited (selection is made by the Director of Admissions) to take departmental tests in their areas of extensive specialization during freshman orientation. Based upon these test results, the amount and nature of the credit granted is determined by the Committee on Academic Policies and Procedures and the pertinent department of instruction.

Readmission

Students who have withdrawn in good standing from the university or who have been suspended for academic deficiencies or for other reasons should submit their requests for readmission to the dean of the college in which they are to be enrolled. Consideration of requests for readmission of students who have been suspended for any reason will be made in light of the applicant's ability, evidence of growth and maturity, good citizenship record, credits earned at another institution, and time elapsed since leaving Appalachian.

Information for Veterans

The university is approved for providing training under Public Law 358, G.I. Bill effective June, 1966; Public Law 634, the children of deceased or

disabled veterans; and Public Law 894, for disabled veterans. APPROVAL FROM THE VETERANS ADMINISTRATION SHOULD BE RECEIVED BY THE STUDENT BEFORE ENTERING SCHOOL.

Students may contact the Veterans Administration Regional Office, 301 North Main Street, Winston-Salem, North Carolina, for information and necessary forms.

Children of disabled or deceased veterans may receive assistance in payment of tuition, room, meals, and other university fees. For information regarding eligibility and application forms students should write to the North Carolina Veterans Commission, Raleigh, North Carolina.

Foreign Student Admission

A student wishing to apply for undergraduate admission as a foreign student should first make arrangements through the American Consulate in his own country to take the Test of English as a Foreign Language (TOEFL Test). No student can be approved (even if he meets other requirements) until a satisfactory score is received.

Funds for financial assistance to foreign students are not available. Therefore, arrangements for all expenses should be made before a student leaves his own country. All foreign students must have health insurance before they can be admitted. All foreign students must register with the International Student Advisor upon their arrival on the campus.

Expenses

Fees are charged by the semester and are due and payable in advance at the beginning of each semester in accordance with payment instructions issued prior to each semester.

The fees payable each semester for undergraduates during the 1975-76 academic year, as anticipated at the time of publication of this catalog, are listed below. With the approval of its governing bodies, the university reserves the right to make changes in these fees when circumstances require. *Fees for 1975-76 are under study and some adjustment should be anticipated.*

Semester Tuition and Fees

Charges include tuition and fees applied to student welfare and activities, registration, other incidental fees and, for undergraduate students only, textbook rental.

	IN-STATE	OUT-OF-STATE
Undergraduate students	$267.00	$1,047.00
Graduate students	263.25	1,043.25

Semester Subsistence Charges

Basic subsistence charges for students residing on-campus, as listed, include room (without telephone), minimum board (standard plan) and minimum laundry and dry cleaning fees. Students occupying rooms with telephones pay an additional $11.00. Juniors, seniors, and graduate students are offered an optional reduced meal plan. Subsistence charges for those selecting the optional plan are reduced by $50.00 (women) or $70.00 (men).

Basic Subsistence Charge

MEN	WOMEN
$514.50	$477.00

The application for admission must be accompanied by an application fee of $10.00 which is not deductible or refundable.

An advance deposit of $100.00 to be applied against the student's tuition and fees must be remitted by each applicant for admission within three weeks of the mailing by the university of the notice of acceptance. Failure to remit within this prescribed period will constitute withdrawal of application. If the applicant, after remitting the deposit, decides not to attend the institution and gives notice of this decision by May 1 in the case of application for the fall term or at least one month prior to the term in the case of application for the spring term, the deposit shall be refunded.

A room reservation deposit of $100.00 for students entering Appalachian for the first time or $50.00 for a student already enrolled must accompany the application for a room reservation. The room reservation deposit is deductible from the room rent charge at the opening of the first semester of residence. Room reservation deposits from new students for the fall semester are refundable upon notification on or prior to May 1 and from returning students on or prior to June 25. Requests for refunds should be made to the Director of Housing Operations.

Foreign Students

Foreign students are considered out-of-state students and must pay tuition and fees based upon out-of-state rates.

Part-Time Students

Students who register for 1 to 7 hours pay the following charges per semester hour:

In-state	$15.00
Out-of-state	$45.00

Students who register for more than 7 hours pay full charges.

Residence Classification for Tuition Purposes

The tuition charge for students classified as "out-of-state" for tuition purposes is higher than for students classified as "in-state" for tuition purposes.

University regulations concerning residence classification are predicated on North Carolina law on this subject, as follows:

North Carolina G.S. 116-143.1

(a) A nonresident shall be any person not qualifying for in-state tuition as hereinafter defined.

(b) To qualify for in-state tuition a legal resident must have maintained his domicile in North Carolina for at least the 12 months immediately prior to his classification as a resident for tuition purposes. In order to be eligible for such classification, the individual must establish that his or her presence in the State during such twelve-month period was for purposes of maintaining a *bona fide* domicile rather than for purposes of mere temporary residence incident to enrollment in an institution of higher education; further, (1) if the parents (or court-appointed legal guardian) of the individual seeking resident classification are (is) *bona fide* domiciliaries of this State, this fact shall be *prima facie* evidence of domiciliary status of the individual applicant and (2) if such parents or guardian are not *bona fide* domiciliaries of this State, this fact shall be *prima facie* evidence of non-domiciliary status of the individual.

(c) No person shall lose his in-state resident status by serving in the armed forces outside of the State of North Carolina.

University regulations concerning the classification of students by residence, for purposes of applicable tuition differentials, are set forth in detail in *A Manual To Assist The Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes.* Each enrolled student is responsible for knowing the contents of that *Manual,* which is the controlling administrative statement of policy on this subject. Copies of the *Manual* are available for review on request at the residence classification offices which are the Admissions Office for undergraduate students and the Graduate School Office for graduate students. Copies are also available in the Library, the Student Union, the offices of the deans of colleges and principal administrative offices, including the Business Affairs and Student Affairs Offices.

Student Welfare and Activities

Student fees support such services and activities as health care, student government, concerts and lectures, class dues, popular programs, forensics, dramatics, intramurals, student publications, attendance at all athletic events on campus, and transcript fees.

Rental of Textbooks

Undergraduate student fees include textbooks rental entitling a student to receive textbooks used in each course for which he registers. Notebooks, workbooks, manuals, paperbacks, and the like are not included. These and other supplementary materials will be purchased by the student. At the end of each semester textbooks that are not needed further are returned. A student who desires to own his textbooks may purchase them by paying the difference between the rental fee and the purchase price. Graduate students purchase their textbooks.

Other Fees

Late payment of tuition and fees	$10.00
Late orientation test	2.00
Music per semester	
Each thirty-minute individual lesson a week	22.50
One class lesson a week	13.50
Practice rooms for voice, piano, or organ	
First semester hour	7.50
Each additional semester hour	3.75
Practice rooms for strings, wind, or percussion	
First semester hour	3.75
Each additional semester hour	1.90
Physical education activity per semester	
Bowling	12.00
Skiing and ice skating classes use privately owned off-campus facilities. A charge is made by those facilities.	
Student teaching and internships per semester hour credit	3.00
National Teacher Examinations and Miller Analogies Test	
N.T.E.—Common and one teaching area	18.00
N.T.E.—Common only	10.00
N.T.E.—One teaching area	9.00
Late registration fee for N.T.E.	3.50
M.A.T. (individual administration)	7.50
M.A.T. (group administration)	5.00
Graduate Record Examinations	
Aptitude Test only	10.00
Advanced Test only	10.00
Aptitude Test and one Advanced Test	20.00

Special Note

Before taking final examinations at the close of each semester, a student is expected to settle all accounts. A student may not register for a new semester until all charges have been paid or arranged for and until all textbooks are returned to the University Bookstore. A student cannot receive a degree, certificate, or transcript of credits until all accounts, except current, and loans have been paid.

Refund of Tuition and Fees

If a student formally withdraws from the university, refund will be made in accordance with the following schedule:

Before close of the registration period:
60 percent of tuition, fees, and room rent.

Within two weeks after close of registration period:
40 percent of tuition, fees, and room rent.

Within four weeks after close of registration period:
20 percent of tuition, fees, and room rent.

Withdrawal at any time will entitle the student to refund of the proportionate part of the amount paid for meals, if applicable.
Refund calculation will be based upon the date of official withdrawal from the university.

A student who has prepaid tuition and fees but who does not complete registration for classes will be due a full refund if he has been determined to be academically ineligible to complete registration. If he has not completed registration for other reasons, he will be due a full refund less any advance deposits he may have made toward tuition, fees, and housing. Students who are suspended for disciplinary reasons or who do not formally withdraw are not eligible for a refund.

If a full-time student reduces his academic load to part-time before close of the registration period or if a part-time student reduces his academic load before close of the registration period, 60 percent of the difference between charges for the original and revised academic loads will be refunded, upon application therefor.

Student Financial Aid

More than half of Appalachian's students receive financial aid. This includes federal work-study programs, various loan programs, and several types of scholarships. Resources available to students through the Office of Student Financial Aid are limited, but financial assistance is within reach of almost every student who can show average academic achievement and definite financial need.

If you realize that you will be unable to meet university expenses without assistance, determine the approximate amount needed per semester and take initiative yourself in seeking information from your high school guidance counselor or from the Director of Student Financial Aid. You will be directed to file application for at least one of the principal types of financial aid indicated below.

Aid applications for the following academic year must be submitted by March 15. You should have your parents submit a Parent's Confidential Statement if you plan to apply for a National Direct Loan, Work-Study,

or a Supplemental Education Opportunity Grant. Forms are available at your high school. It should be submitted to the College Scholarship Service, Box 176, Princeton, New Jersey 08540.

Information to Veterans

The university is approved for providing training under provisions of Chapter 34, Title 38, U.S. Code, G.I. Bill effective June, 1966; Chapter 35, Title 38, U.S. Code, the children of deceased or disabled veterans; and Public Law 894, for disabled veterans.

Students enrolling under the provisions of Chapter 34 and 35 will pay fees at the time of registration but receive a monthly education and training allowance from the Veterans Administration.

Students may contact the Veterans Affairs Office at Appalachian State University for information and necessary forms.

Children of disabled or deceased veterans may receive assistance in payment of tuition, room, meals, and other university fees. For information regarding eligibility and application forms, students should write to the North Carolina Veterans Commission, Raleigh, N.C.

Student Employment Programs

Student employment programs are maintained to help you pay university expenses while attending classes full time. Students participating in the programs are employed in administrative offices, in colleges and academic departments, and in service facilities such as the bookstore, the library, and the food services.

The student employment programs consist of the Regular University Self-Help Program and the College Work-Study Program (Title I, EOA). A student returning to school for the summer session only is not eligible to work under this program.

In addition, a Student Employment Service has been established as a branch of Appalachian's Office of Student Development. Located in Workman Hall, it lists off-campus work opportunities and some on-campus placements.

Generally, you may work up to 15 hours per week in university-operated work programs. Your schedule will be arranged by you and your work supervisor with the understanding that class schedules have first priority.

Student Loan Programs

Detailed information may be obtained from your high school counselor or from the Director of Student Financial Aid. Available loan programs are as follows:

The College Foundation, Inc.
The National Direct Student Loan Program
The N.C. Prospective Teacher Scholarship Loan Fund
Guaranteed Loan Program (for out-of-state students)

University Student Loan Fund

Appalachian has been given funds over the years to use as educational loans for students. When you borrow money from any of the funds listed below, you sign a promissory note and make arrangements for repayment satisfactory to the Office of Financial Services. The loan funds include:

The Nora E. Edmondson Fund

The Frances L. Goodrich Fund

The B. H. Harmon Fund

The Library Science Fund
(by Eunice Query and Mabel Brister)

The Mark Davis Fund

The W. J. Waters Graduate Fund

The Tau Beta Emergency Fund

The Dr. W. Amos Abrams Fund

Grants in Aid and Special Talent Awards

In recognition of students with special talents, the university provides grants in fields of activity such as dramatics, art, forensics, industrial arts, music, and athletics. If you feel that you might qualify for one of these awards, write to the appropriate department chairman for information. Athletes should write to the coach of a specific sport.

Supplemental Educational Opportunity Grants

This program is part of the Higher Education Act of 1965, with the purpose being to assist in making available the benefits of higher education to qualified high school graduates of exceptional financial need. Students who qualify may be eligible for a grant of up to $1,000 per year for a period of four academic years. The recipient must maintain satisfactory progress in his course of study and be a full-time student during the academic year.

Basic Educational Opportunity Grants

This federal-based program was initiated for the 1973-74 academic year with only entering freshmen being eligible. If funding of the program is increased, all students should be eligible for consideration for a B.E.O.G. in future years. A student may be eligible for a grant which does not require repayment if he qualifies on the basis of need.

Applications are available at no cost at high schools, post offices, public libraries, and financial aid officers of institutions of higher learning.

Scholarships

The J. D. Rankin Memorial Scholarship

Army ROTC Scholarships
(apply through Department of Military Science)

Alpha Gamma Chapter of Delta Kappa Gamma Scholarship
(Watauga and Avery County students only)

James G. K. McClure Scholarships
(students from designated western North Carolina counties only)

*Legislative Scholarships

*Endowment Scholarships

*Living Endowment Fund for Scholarships

Vocational Rehabilitation Scholarships
(apply through N.C. Department of Vocational Rehabilitation)

John Hilary Workman Memorial Scholarships
(apply through Department of Geography and Geology)

Kenneth B. Linney Memorial Scholarship
(voice majors only)

Presser Foundation Scholarship
(music majors only)

Watauga Savings and Loan Scholarships
(Watauga High School graduates only)

The G. P. Eggers Scholarship
(English majors only)

The Dr. J. B. Hagaman, Jr. Memorial Scholarship
(students in science only)

The Broyhill Industrial Arts Scholarship Loan Program
(industrial arts majors only)

The Clara Sullivan Crawford Memorial Scholarship Fund

The Graduate Alumni Scholarship
(apply through ASU Graduate School)

The Capt. E. F. Lovill Fund
(apply through ASU Graduate School)

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* Any student applying for an academic scholarship from the university will be automatically considered for these programs.

The Instructional Program

The instructional program at Appalachian State University is diversified, attempting to meet the needs of many classes of students. In addition to the course offerings listed under each instructional department, students may elect to do independent study under the direction of selected faculty members, to participate in an internship, or to participate in the university honors program. Detailed information on each of these options is given in appropriate sections of this catalog.

A new catalog is issued annually; and, while course offerings are fairly continuous from year to year, the faculty reserves the right to make changes in both curricula and regulations. The information in any given catalog is, therefore, wholly valid only for the year of its issue, and is superseded by subsequent issues. Any interested person should consult the most recent issue of the university catalog for current information about the instructional program.

Any changes in either curricula or regulations do not, however, affect a student already enrolled in a degree program. Regardless of subsequent changes, any student may, and normally does, elect to graduate in accordance with the academic regulations in force during the time of his first registration at Appalachian, provided that he graduates within six years of his date of entry. Any student may, of course, elect to graduate under any catalog issued after his entry into the university and prior to his graduation provided he was enrolled in the university during the time when the catalog was in effect. If a student elects to graduate under a new catalog, he must meet all requirements of the catalog under which he wishes to graduate. Students who do not declare a major at the time of their entrance may graduate under the requirements of the catalog in force at the time of their entrance, regardless of subsequent changes, if they finish within six years of their first enrollment. In order to change the catalog under which he intends to graduate, the student notifies the office of the dean of the college in which the student is enrolled.

The Board of Governors of The University of North Carolina is the governing body of Appalachian State University. The powers of the chancellor and the faculty are delegated by the board.

Registration at Appalachian indicates the student's willingness to accept both published academic regulations and rules found in official announcements of the university. In the interest of all its students, Appalachian reserves the right to decline admission, to suspend, or to require the withdrawal of a student when such action is, by due process, deemed in the interest of the university.

Academic Policies and Regulations

Degree Requirements

Students should refer to the requirements of their respective colleges for information about their courses of study and confer with their advisors whenever problems arise.

Students should pursue required courses in the suggested sequence. Failure to do so may lead to scheduling difficulties and the student may find that the subject for which he wishes to enroll is either not available or closed to students with advanced standing.

Courses of Instruction

Courses are listed in numerical order by departments, which are listed in alphabetical order. Courses numbered 0001-0999 are remedial; 1000-1999 are normally offered for freshmen; 2000-2999 for sophomores; 3000-3999 for juniors; 4000-4999 for seniors; 5000 and above for graduate students. Courses open to lower classes are also open to upper classes.

The figure in parentheses after the course title tells the credit in semester hours; for example, the figure (3) means three semester hours.

Semesters of the year in which the course is offered are represented by symbols: "F" for fall semester, "S" for spring semester, "SS" for summer session, "Ex" for extension.

A hyphen in the course number, credit, and semesters of the year in which the course is offered indicates that the course extends through more than one semester and that the preceding semester must be completed before the following semester can be taken.

The comma in the course number, credit, and semesters indicates that the course is continuous but that one semester may be taken independently of another.

The semicolon in the semesters offered indicates that the course is a one semester course and is repeated in a subsequent semester. If the course is a two semester sequence, the semicolon in the semesters offered indicates that all courses listed are normally taught in the semesters indicated.

Special requirements for admission to a course are stated after the word *prerequisite.*

In stating departmental prerequisites, the following list of standard abbreviations will be used:

Accounting	ACT	Chemistry	CHE
Administration, Supervision and Higher Education	AH	Computer Science	CS
Anthropology	ANT	Counselor Education and Research	CR
Art	ART	Driver and Traffic Safety Education	TSE
Biology	BIO	Economics	ECO
Business Administration	BA	Educational Media	EM
Business Education and Office Administration	BE	Elementary Education	EE

English	ENG	Music	MUS
Finance	FIN	Philosophy	PLY
French	FRE	Physical Education	PE
General Science	GS	Physical Science	PHS
Geography	GHY	Physics	PHY
Geology	GLY	Political Science	PS
German	GER	Psychology	PSY
Health and Safety	HS	Reading Education	RE
History	HIS	Recreation	REC
Home Economics	HEC	Religion	REL
Human Resources	HR	Secondary Education	SE
Industrial Arts	IA	Sociology	SOC
Latin	LAT	Spanish	SNH
Mathematics	MAT	Speech	SCH
Military Science	MS	Statistics	STAT

The administration reserves the right to withdraw any course for which there is insufficient enrollment.

Standards of Scholarship

In all work done for a degree, scholarly performance is expected. The student is expected to demonstrate academic competence, intellectual honesty and responsibility, a willingness to do more than the minimum required, and the ability to think critically and constructively.

Credits

Appalachian operates on the semester system with the year divided into two semesters and a summer session, which is divided into terms of varying lengths. The unit of credit is the semester hour, and the number of semester hours credit for each course offered by the university is given in the sections of this catalog where courses of instruction are listed.

Registration

The majority of students entering the university do so at established semester periods. To facilitate the orderly processing of these registrations, specific times have been set by the Registrar's Office as the "beginning" and "ending" of the registration period. Registration schedules are announced, and registration materials are available in the Registrar's Office. A fee is charged for registering after the close of the regularly scheduled registration periods.

The university recognizes that there are those who are unable to register at established semester periods. Appalachian State University provides for each student to register at any time during the semester and commence coursework, which is taken primarily on an independent or individual study basis. (For an explanation of independent study and individual study, see page 45.) For complete details regarding this registration procedure, contact the Registrar's Office. No late fee is attached to such special registration.

Grades and Grade Points

At the end of each grading period grades are given in each course by letters which indicate the quality of work done by the student.

A—Excellent, 4 grade points per semester hour.

B—Above Average, 3 grade points per semester hour.

C—Average, 2 grade points per semester hour.

D—Below Average but Passing, 1 grade point per semester hour.

F—Failure, 0 grade points.

P—Pass, 0 grade points (used only for courses taken on Pass-Fail basis).

F*—Failure, 0 grade points (* indicates only that the course was taken on the Pass-Fail basis; this grade is equivalent to the F above).

I—Incomplete, because of sickness or some other unavoidable cause. An I becomes an F if not removed within the time designated by the instructor, not to exceed a year.

W—Withdrawal, either from a course or from the university.

WF—Withdrew Failing, course dropped with failing grades more than two weeks after registration closes.

Y—Auditing.

S—Satisfactory, 0 grade points (used for student teaching, screening proficiencies, and specially designated courses in the curriculum).

U—Unsatisfactory, 0 grade points (used to indicate unsatisfactory performance in student teaching, screening proficiencies, and specially designated courses in the curriculum).

All official drops and withdrawals are recorded on change cards, which, when completed and approved, must be filed in the Registrar's Office.

Pass-Fail Grading System

Any full-time undergraduate student with a grade-point average of at least 1.75 or any new entering student may elect to take one course each semester under the Pass-Fail grading system. No more than two courses designated by name or area by major departments for satisfying the major and no more than two courses required in a minor may be taken under this system. *Not exceeding the limitations on the number of courses which may be taken under the Pass-Fail grading system in the major and minor is the responsibility of the student.* If a course taken under the A-B-C-D-F grading system is repeated, it must be taken under the A-B-C-D-F system when repeated.

Once the Pass-Fail system is elected for a given course, a change back to the A-B-C-D-F system may not be made.

A grade of P indicates a grade of D or above on the A-B-C-D-F system. The hours earned will count toward graduation, but no grade is computed in determining the grade-point average (GPA).

A grade of F indicates failure; no credit is earned and the grade of F is computed in determining the GPA.

Grade-Point Average

The GPA is a general measure of the quality of a student's work. Unless a course is repeated, the GPA is determined by dividing the total number of grade points earned by the total number of semester hours attempted. If a student takes a course and makes a D or F, he may elect to repeat the course for credit in order to improve his record. The course may not be repeated for credit, however, if it is prerequisite to a course already taken and passed, if the content of the course has changed substantially, or if the number of semester hours credit for the course has been reduced. In order to determine whether a course is a prerequisite to a particular course, consult the appropriate departmental listing of courses in this catalog. Determination of substantial change in the content of a course is made by the chairman of the department in which the course is offered. When a course is repeated for credit, only the grade points and the semester hours earned the last time the course is taken will be used in computing the GPA. The student's record, though, will show all courses taken.

Prior to the spring quarter of the 1969-70 academic year, grade-point averages were computed in a different way. Students who were in school prior to that quarter have the choice of remaining under the regulations in effect at that time or of choosing to have their grade-point averages computed as outlined in the previous paragraph. Those who choose to have their grade-point averages computed as outlined in the previous paragraph may not elect to go back to the other method for grade-point computation. Associated with this change in the method of grade-point computation were certain changes in retention requirements. The student who elects to change the method of grade-point computation must also accept the associated retention standards. Only work taken at Appalachian is used in computing grade-point averages.

Academic Load

A student normally takes from 15 to 17 hours a semester. In special situations, a student may take more than 17 hours a semester. To do this a student must have prior approval of the dean of the college in which he is enrolled. Registration for less than 12 hours places the student on part-time status.

Residence

A student must complete at least 30 semester hours at Appalachian, including eight hours in his major and four hours in his minor, and make at least a 2.00 average overall and in the major or area of specialization on work taken at Appalachian. The senior year (two semesters) must be spent in residence at the university.

Credit Limitations

1. A maximum of 20 semester hours of extension and/or correspondence work from recognized institutions may be credited toward meeting the requirements for graduation. Correspondence courses are not offered by the university. Before registering at another accredited institution

for a correspondence course to be transferred to Appalachian, a student must have the written permission of the dean of his college and the chairman of the department in which the course is listed. In order to obtain this permission, the student must first secure the proper form from the Registrar's Office to be signed by the dean involved. The combined load of residence courses and correspondence courses may not exceed the maximum load allowed.

2. Except for physical education majors, not more than six hours in physical education activity courses may be included within the 122 semester hours required for graduation.
3. A candidate for the Bachelor of Arts degree (with the exception of the Bachelor of Arts degree in general studies) may count not more than a total of 40 hours above general education requirements in any one department.
4. Validation of credits earned more than 10 years prior to the date of graduation may be required if and when they are submitted to fulfill degree requirements.
5. No student may be a candidate for more than one bachelor's degree at a time. However, a graduate who holds one bachelor's degree may earn a second bachelor's degree by taking additional work of at least 30 semester hours and by completing all requirements for the degree.
6. All baccalaureate degrees granted by Appalachian require the completion of a minimum of 60 semester hours at a senior college or university. (The six semester hours credit in military science awarded to those who have satisfactorily completed at least four months of military service is not applicable toward meeting this requirement.)
7. A student who has registered at Appalachian may take work at another accredited institution to be transferred to Appalachian. Before registering for such a course, the student must have the written permission of the dean of his college. In order to obtain this permission the student must first secure the proper form from the Registrar's Office to be signed by his dean.
8. Provided he is otherwise qualified for admission to graduate study, a senior at Appalachian State University who is within 12 semester hours of graduation besides student teaching may apply to the Dean of the Graduate School for permission to carry up to 12 semester hours of graduate course work while completing the baccalaureate degree. Such a student may not register for more than 15 semester hours for a regular semester. Credit earned in this manner may not be used to meet requirements for the baccalaureate degree and, at the same time, be applied toward a master's degree.

   A senior who wishes to enroll in a graduate course as an elective for undergraduate credit requirements for a major for the baccalaureate degree may apply to the chairman of his department and the Dean of the Graduate School to do so. However, any graduate course approved for this purpose may not later be applied toward a master's degree.

Absences From Class

A student is expected to attend every meeting of his classes, and he is responsible for his class attendance. No matter what bases exist for absences, students are held accountable for academic activities, and teachers may require special work or quizzes to make up for the missed class or classes.

The student who must be absent should explain why he must be absent or why he has been absent. The instructor may or may not excuse the absence according to his own judgment. Students who anticipate officially representing the university should make arrangements with instructors how to make up work in advance of actually being absent. If students expect to be absent for university approved reasons more than ten percent of the class meetings, they should consult with the instructor at the beginning of the course. If the instructor finds that make-up arrangements are difficult or impossible to bring about, he should advise the student not to take or to drop the course. In general, students should plan class schedules to minimize the number of absences.

As long as students follow these procedures, absences due to participation in university approved functions are expected to be excused.

Change of Course

A student may add courses or change sections until the close of registration. To add a course the student must complete the drop-add form after it has been determined that the course is open. This is accomplished at the Registrar's Office. The student is given the duplicate copy of the drop-add form. This copy verifies his enrollment in the class and must be presented at the Registrar's Office in case he later wishes to drop the class.

To drop a course or to change sections, the student must complete a drop-add form. If the course and section being dropped are printed on his student schedule card, he must take it and the drop-add form to the Registrar's Office. If the course and section being dropped are not printed on his student schedule card, he must present the duplicate copy to his drop-add form showing his original registration for the course.

Any student may officially drop a course within two weeks after the close of registration without indicating passing or failing. No grade points or hours are counted for an official drop during this period.

Any course officially dropped more than two weeks after registration closes for the semester is assigned a grade of W or WF depending on whether the student was passing or failing, respectively. The student fills in the drop-add form and gets the instructor of the class to indicate WP or WF on the form. The instructor must also sign the form. The student must bring the form, his student schedule card (or duplicate copy of the drop-add form showing his original registration for the course) to the Registrar's Office to drop a course after the official drop period ends. If the grade is W, the hours are not counted and no entry is made on the

permanent record. If the grade is WF, the hours are counted and the course is shown on the permanent record.

Courses dropped at any time without permission are recorded as F, and the hours are counted in computing the grade-point average. Within 30 days prior to the end of the semester, a student may not drop a course passing.

Withdrawal From the University

A student who wishes to withdraw from the university for any reason must make arrangements with the Dean of Students prior to withdrawal. Permission to withdraw is required from the parents or guardians of unmarried students under 21.

Students who withdraw because of illness or extreme emergency will receive grades of W. Students who withdraw for reasons other than illness or extreme emergency will receive grades according to the policy outlined in the section titled "Change of Course."

Students who withdraw unofficially will receive grades of F.

Course Examinations

Although there is no specific period of time designated by the university at the end of a term for final examinations, a final examination for a given course may be required at the discretion of the instructor of that course. It is the responsibility of the student to satisfy any requirements an instructor may have regarding a final examination. (See also the section on page 42 entitled "Absences from Class.")

Grade Reports

Final semester grades are reported to the Registrar's Office not later than noon of the day following the last day of the semester. Each instructor posts the grades of his students. At the end of each semester a report of the student's grades is sent to the student.

Classification

At the end of each semester students are classified on the basis of semester hours. All students who are admitted as regular first-year students or who have completed less than 30 semester hours are classified as freshmen. Students who have completed at least 30 semester hours are classified as sophomores.

Students who have completed at least 60 semester hours are classified as juniors.

Students who have completed 90 semester hours are classified as seniors.

Academic Suspension

To continue at Appalachian a student must have the following grade-point averages and the following hours passed at the beginning of the semesters indicated:

	G.PA.	*Hours*
Semester 2	.75	—
Semesters 3, 4	1.50	24
Semester 5	1.90	54
Semesters 6, 7, 8	2.00	60

Eligibility for continued enrollment or for readmission may be restored only by completion of sufficient work in the summer session at Appalachian. The summer session will not count as a semester in residence for the purpose of computing eligibility for continued enrollment or readmission. Grade-point averages may not be raised by correspondence or credit from another school.

Students who entered Appalachian prior to the spring quarter, 1970, may choose to abide by academic retention regulations in effect at the time they entered. However, if they choose to do this, then they must also abide by the regulations concerning the repeat rule in force at that time which requires all grades to be counted in determining the student's grade-point average whenever a course is repeated. Once students transfer to the new regulations, they must continue under these regulations until completion of their program.

Requests for readmission following suspension for academic reasons should be sent to the dean of the college involved. Approval of requests is not automatic and will depend not only on academic records but also on evidence of growth and maturity.

Field-Based Option

In fulfilling its obligation as a regional university, Appalachian State University provides an opportunity for persons seeking a degree to pursue the degree in "field-based" programs established by special arrangement. Designed primarily for other than full-time students, the "field-based" degree program provides the opportunity for such persons to extend or update their academic credentials with only short, conveniently scheduled, on-campus experiences. The bulk of the program is delivered in close proximity to the community that has requested and arranged for the "field-based" option. For details regarding these degree programs, contact the chairman of the department in which the degree program is offered.

Independent Study

Independent study is the term applied to the study of a subject not listed in the regular curricular offerings. Under the independent study program a student designs a project and then individually pursues his study under

the auspices of an instructional staff member who serves as a consultant for the student during the course of his study. The vehicles for this are course numbers 2500, 3500, 5500, and 6500 depending on the level of the student. For information on independent study, the student should consult the dean of his college or the chairman of the department in which the independent study is to be done.

Individual Study

Individual study is the pursuit of a regularly listed course by a student without his attending classes on a regular basis. The student who wishes to pursue a course by individual study will secure the permission of the chairman of the department in which the course is offered.

Instructional Assistance Program

The instructional assistance program is designed for students interested in participating in, for academic credit, supervised experiences in the instructional process on the university level through direct participation in classroom situations. Students with junior or senior standing are eligible to participate in this program. For further information the student should contact the chairman of the department in which he wishes to engage in instructional assistance.

Programs of Foreign Studies

In order to more adequately fulfill its stated purposes as an institution of higher learning, Appalachian State University offers programs of foreign studies; the specific objectives of which may be expressed as follows:

1. To enlarge the students' horizons
2. To prepare students to live in a world that is becoming smaller and smaller
3. To enable students to become proficient in a foreign language
4. To aid students to understand the forces at work in the world
5. To enable students to reinforce their academic majors, especially majors in foreign languages, the humanities, and the social sciences
6. To provide for the enrichment of the students' general education requirements
7. To provide elective courses which will support the students' majors and/or professional goals.

Announcements of specific programs to be offered during summers are made during the fall semester of the preceding year.

Credit by Examination

Not all courses are amenable to credit by examination, but many are. Students who wish to challenge a regularly listed course should consult

with the instructor responsible for teaching the course and with the department chairman. If arrangements can be made, a fee of $20.00 is charged for such examinations and a receipt from the Cashier's Office must be shown to the department chairman before final approval can be given. If the examination is passed, credit without grade will be noted on the student's transcript. If the examination is not passed, no notation is made on the transcript. In the case of freshmen who take advanced placement examinations during the freshman orientation period, the fee is waived.

Honors

To encourage scholarship the university officially recognizes students who distinguish themselves in scholarships. Honors Day is observed for all students qualifying for scholastic honors, and each honor student is awarded a certificate.

Alpha Chi, a national scholastic fraternity, is open to not more than the top ten percent of the junior and senior classes who have a grade-point average of not less than 3.25. Phi Kappa Phi, another national scholastic fraternity, is open to all students who qualify.

Dean's List

Any semester a student who carries at least 12 hours of work on which grade points may be computed and who attains a grade-point average of 3.20 or better is placed on the Dean's List of honor students for that semester.

Honor Teaching

A student who shows exceptional initiative, scholarship, and excellence in student teaching may be designated and recognized as an Honor Teacher. The honor will be entered on his official record.

Graduation With Honors

To be eligible for graduation with honors a student must complete a minimum of four semesters or 58 semester hours in residence at Appalachian. A grade-point average of 3.25 is required for graduating *cum laude;* a grade-point average of 3.65 is required for graduating *magna cum laude;* and a grade-point average of 3.85 is required for graduating *summa cum laude.*

Graduation

Degrees are conferred at the close of the spring semester and the summer session. Candidates for degrees and/or teaching certificates must file application for degrees and North Carolina certificates on blanks provided by the Registrar on registration day of the semester in which graduation requirements will be completed. At the time of filing the application all requirements except current work should be completed.

All candidates for degrees at any commencement are expected to be present to receive their degrees in person unless arrangements to graduate *in absentia* have been made with the Registrar or the Dean of the Graduate School.

Transcripts

Transcripts should be requested from the Office of the Registrar. Included in the fees paid by a student at each registration period is an amount to cover the cost of transcripts for life. Each student will receive a transcript upon request free of charge. No more than three transcripts will be issued at any one time. Transcripts will not be issued if the student has an unsettled account with the university.

Enrollment, Fall Quarter, 1974

Freshmen	2,238
Sophomores	1,521
Juniors	1,720
Seniors	1,540
Special	141
Graduates	854
Extension	1,426
Total Number Enrolled	9,440

Degrees Conferred, 1974

	Spring 1974	Summer 1974
Bachelor of Arts	197	49
Bachelor of Music	20	8
Bachelor of Science	769	180
Bachelor of Science in Business Administration	224	49
Bachelor of Technology	35	3
Master of Arts	208	295
Specialist in Education	17	25
Total Number of Degrees Conferred	1,470	609

The General College

O. K. Webb, Jr., Dean

Steven W. Millsaps, Associate Dean

The General College supervises and administers academic advising, student academic programs, and the general education curriculum for students at the freshman and sophomore levels. It also has responsibility for the administration of preprofessional programs and certain special programs such as Watauga College.

All freshman students entering the university are enrolled in the General College. Transfer students who do not meet the admission requirements of a degree-granting college enroll in the General College until such requirements are met.

Although the General College is responsible for administering its students' academic affairs, policy decisions in such matters are made in cooperation with the dean of the college offering the courses in question.

The college's program of academic advising provides services for students during their first two years of college life. Advisors are drawn from the academic faculties, and they help students plan academic programs.

Although advisement is offered by the faculty on a systematic basis, advisement is voluntary on the part of the student. This means, however, that each student is strictly responsible for keeping up with his own curriculum so as to meet graduation requirements.

General education courses provide an integrated curriculum which covers broad areas of knowledge.

In addition to the general education courses, students in the General College also take preparatory courses for specialized training in their major and minor fields. It is important that the student be familiar with the degree requirements for the particular college from which he plans to graduate and to plan his program carefully. The specific requirements and course patterns for the different degrees are given in the sections of this catalog referring to the colleges which grant the degrees. The student is advised to consult these sections as he plans his program for the four years.

General Education Requirements ..... 40-44 s.h.

Courses in communication, humanities, mathematics, social science, natural science, behavioral science, and physical education are designed to give a student competence in communications and logical thinking, a broad acquaintance with the various components of human knowledge, an understanding of our cultural and social heritage, and an opportunity to develop

value judgments, constructive attitudes, and the ability to function purposefully in a democratic society.

For all bachelor's degrees, a student shall complete the following requirements in general education.

a. Communication ..... 6 s.h.

English 1000-1100 either must be completed or proficiency at the level of the courses demonstrated by examination. If proficiency is demonstrated by examination, appropriate credit will be given without grade.

b. Humanities ..... 12 s.h.

Courses must be elected from at least three areas listed below. One of the courses must be in literature. Approved courses in literature are marked with an asterisk.

Art 2011, 2012, 2013, 2004, 3002, 4002

English, any course in literature at the 2000 level or above* (excludes 2050, 2170, 3460, 3490, 3610, 3650, 3660, 4610, 4660)

English 2170 (counts as a separate area)

French 3010*, 3020*, 3050, 3060

Latin 3010*, 3020*

Music 2011, 2012, 2013, 2014; Music Majors Only: 2001, 2002, 3001, 3002; Elementary Education Majors Only: 2020

Philosophy, any course subject to stated prerequisites

Religion, any course, subject to stated prerequisites. The following satisfy the literature requirement: 2000*, 2100*, 1100*

Spanish 3010*, 3020*, 3040, 4010

Speech 2011, 2211, 2406, 3211, 4406

c. Social Sciences ..... 10-12 s.h.

(1) History 1101 and 1102 must be completed or proficiency at the level of these courses demonstrated by examination. If proficiency is demonstrated by examination, appropriate credit will be given without grade.

If a student has completed a year of European or world history in high school with an average of B or better, he may meet the general education requirement in history by electing History 2301, 2302 or 2401, 2402.

(2) In addition two courses must be selected from the list below. The courses must be from different areas.

Anthropology 1210, 2215, 2235, 3310, 3400

Any course in economics, subject to stated prerequisites

Geography 1010, 1020, 2210, 2400

Any course in political science, subject to stated prerequisites

Any course in sociology, except 3885, subject to stated prerequisites
Psychology 2201, 4550, 4551

d. Biological and Physical Sciences ..... 6-8 s.h.

Courses must be selected from one of the areas listed below, subject to stated prerequisites:

Biology (except 1107, 3303, 4550, 4551, 4557, 4559)

Chemistry

Geology

Physical Science

Physics

e. Mathematics ..... 4 s.h.

Mathematics 1010, 1020, 1030, or 1110 either must be completed or proficiency at the level of these courses demonstrated by examination. If proficiency is demonstrated by examination, appropriate credit will be given without grade.

f. Physical Education ..... 2 s.h.

Physical education activity courses

Further requirements for the degrees are listed under the programs of the degree granting colleges.

Preprofessional Programs

It is possible for a student at Appalachian to obtain preparation for admission to professional schools in other institutions. In most instances a student may take two or more years at Appalachian prior to transfer to the professional school. In every instance, the student should consult the catalog and with the admissions officer of the professional school as he plans his program. An advisor is available for each of the preprofessional programs listed below.

Legal

Law schools require a baccalaureate for admission. The degree may be either the Bachelor of Arts or the Bachelor of Science degree. No prescribed prelaw program is required by most law schools. Usually the need for a broad general education is emphasized. The student should choose his major in terms of his special interest in the field of law. It is recommended that his program include courses selected from economics and business, English, geography, history, mathematics, philosophy and religion, political science, science, sociology, and speech. Participation in the forensics program should be helpful to the prelaw student.

Medical and Dental

All medical and dental schools require at least three years of satisfactory undergraduate work at an accredited college or university. Most state that, all other things being equal, preference will be given to those completing a bachelor's degree with an academic major. Medical and dental education requires a background in the humanities as well as the sciences. The particular courses the student takes are not as important a criterion for admission to medical schools as the way he handles his undergraduate work. A B.A. curriculum should be followed.

If they are not required in the program selected, the following courses should nevertheless, be taken: Mathematics 1110-1120-2130; Chemistry 1101-1102-2201-2202, 2210; Biology 1101, 1102, 2202, 3301, 3309; Physics 1101-1102; Psychology 2201. Suggested electives: Mathematics 3810; Chemistry 3301, 4580; Biology 3300. Students should consult with the faculty advisor, because requirements at different medical and dental schools vary.

Nursing

In cooperation with the University of North Carolina at Greensboro, Appalachian offers the first two years of a program leading to the Bachelor of Science in Nursing degree. The following courses should be taken by students in this program: English 1000-1100; Biology 1101-1102, 2202, 3301, 3308; Physical Science 1001-1002 or Chemistry 1101 and Physics 1101; Sociology: two of the following plus one other course in sociology 1110, 1120, 2201; Psychology 2201, 3301 plus 3 more hours. Mathematics 1020; Humanities—5 courses; Physical Education activities—2 semester hours. Nursing 211 must be taken on the Greensboro campus the summer prior to transfer enrollment in the fall.

Pharmacy

A bachelor's degree in pharmacy requires five years, three of which must be spent in residence at the school of pharmacy. The student should obtain a copy of the catalog of the school of pharmacy which he plans to attend and with his academic advisor adjust his course of study to meet his individual needs.

It is suggested that the prepharmacy student take Chemistry 1101-1102-2201-2202, 2210; Mathematics 1020; Biology 1101-1102; 2202, 3301; English 1000-1100; Physics 1101-1102; Economics 2010, 2020.

Engineering

A student may take at Appalachian most of the work included in the first two years of engineering schools. It is important that the student who plans to pursue a program of studies leading to a degree in engineering be well prepared in mathematics and science. For this reason a beginning freshman who plans to follow this course of study must have a score of at least 600 on the SAT mathematics test.

The course of study for the freshman and sophomore years should include English 1000-1100; Physics 1150-1151, 2010; Industrial Arts 1001, 2001; Chemistry 1101-1102; Mathematics 1110-1120-2130 and 3130; History 1101, 1102; and Economics 2010, 2020. The student should consult the catalog of the engineering school to which he plans to transfer and follow as closely as possible the course of study given there for his particular field of interest.

Forestry

In cooperation with North Carolina State University, Appalachian offers the first two years of a program leading to a bachelor's degree with a major in forestry.

It is suggested that the preforestry student take Chemistry 1101-1102; Biology 1101-1102; English 1000-1100; Mathematics 1110-1120-2130; Economics 2010, 2020; Physics 1101-1102; and electives in social science and the humanities.

Students planning to transfer into the pulp and paper technology curriculum should take Chemistry 1101-1102; Physics 2010, 2020; and should include Chemistry 2201-2202 in place of the sophomore electives.
Students planning to enroll in wood technology should take Chemistry 2201-2202.

Students planning to enroll in recreation and park administration are not required to take physics or calculus.

Students in the preforestry curriculum must start their program at North Carolina State University with the summer camp which is prerequisite to junior standing.

Admissions Partnership Program

This program, funded in part by the Carnegie Corporation of New York, is a five-year experiment in time-shortened degrees. It has several phases including one in which a selected cross section of high school seniors are admitted as regular freshmen on campus, a second in which Appalachian faculty members teach regular freshman courses on two high school campuses in adjoining counties to high school seniors. In effect these students bypass the academic work of their high school senior year. In a third phase a group of selected regularly admitted freshmen (who have completed high school) bypass the first year of college work, thus reducing the time needed for a baccalaureate by one year.

Office of Outdoor Programs

The Office of Outdoor Programs is a support facility which sponsors and equips experimental components of academic courses which can justify an outdoor instructional dimension to the curriculum. The expeditions are adapted from the Outward Bound program which the office coordinates as summer projects involving courses of 24-day length. In the Outward

Bound program students and faculty alike attend any one of the several Outward Bound schools in the United States and some abroad. Students receive four semester hours credit for completing one of the summer courses.

Upward Bound/Special Services

Upward Bound is a program aimed at giving encouragement and academic help to disadvantaged high school students in the region who have the potential to go to college but who likely would not do so without such concern and assistance. There are both an intensive program on the Appalachian campus during the summer and continued help to the students in their home high schools during the academic year.

Special Services offers special developmental assistance to disadvantaged students who are regularly enrolled at the university.

Both Upward Bound and Special Services are funded in part by the federal government.

Interdisciplinary Programs

The Honors Program

Helen Latour, Director

The university offers an honors program designed specifically for superior students. Participation in any part of this program is by invitation only; however, a student may petition to participate by directing the request to the Director of the Honors Program.

The Honors Program at Appalachian is based on a two-fold approach: general honors and departmental honors. General honors stresses an interdisciplinary or broad approach to learning, while departmental honors emphasizes depth. Course offerings in departmental honors are listed elsewhere in this catalog under the individual departments.

After a residency of two semesters, a general honors students will elect a sequence of interdisciplinary seminars, each conducted by a team of professors. Academic credit for those seminars may be used for general education requirements, elective credit, or, in some cases, departmental requirements. A general honors student must maintain an overall grade-point average of 3.00 to remain in the program.

For further information regarding the Honors Program contact the General College.

Courses of Instruction for General Honors

(For a description of the notation used in the following list of courses, see page 42.)

1510. Humans: The Given/(5).S.

Genetics, physical anthropology, evolution, experimental psychology, developmental psychology, ethology, anatomy. Origins of speech, writing, art, religion, drama, mathematics, science, etc.

1511. Humans: Origins of Cultural Pluralism/(5).F.

The growth of mythology/ideology, technology, institutions and forms of expression in representative cultures.

2510. Humans: Great Human Beings in Their Cultural Context/(5).S.

A study of self-actualizing figures in science, philosophy, politics, art, music, literature and religion and their relationship to their culture.

2511. Humans: Perspectives on Problems, Solutions and the Future/(5).F.

This course will attempt to use the information and attitudes generated in the first three courses to address such questions as: Who Am I? Who Are We? Where Am I Going? What Can We Do?

Interdisciplinary Majors

The General Studies Program

The university offers an undergraduate degree program in general studies which is designed for those students whose educational needs are not best being served by their pursuing the existing major and minor programs leading to a baccalaureate degree. The general studies degree program provides for this type of student in that the student would not be required to complete a major and minor as they are presently established, but rather he would plan a program of study from courses offered by the university which he believes will best enable him to realize educational objectives which in turn best prepare him to attain his post-college goals. To be admitted to the General Studies Program as a candidate for the Bachelor of Arts degree a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least 2.00 (which must be maintained).
3. Completed English 1000 and 1100.
4. The approval of the director of the General Studies Program.

To earn the Bachelor of Arts degree in the General Studies Program, the following requirements must be met:

1. Completion of at least 122 semester hours with an overall grade-point average of at least 2.00. A transfer student must have an overall grade-point average of at least 2.00 on all work at Appalachian.
2. Completion of general education requirements.
3. Completion (or demonstrated proficiency) of two years of a foreign language.
4. Admission into the General Studies Program prior to completing his last 30 semester hours before graduation. A student must have an overall grade-point average of at least 2.00 on all work in his approved program of study in the General Studies Program.
5. Electives to complete 122 semester hours.
6. Completion of residence requirements.
7. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
8. Recommendation of the faculty.

Individually-Designed Major in Business Administration

(For a description of this program, see page 130.)

Science

(For a description of this program, see page 146.)

Social Science

(For a description of this program, see page 146.)

Interdisciplinary Minors

Black Studies

The Black Studies minor is offered under the administrative direction of the General College as a start in meeting the needs of black students who seek to explore their heritage and white students who want to understand something of the black experience. The curriculum draws on a holding of nearly 2,000 books and periodicals in Belk Library and presently includes 28 semester hours of offerings. The minor will consist of 16 semester hours chosen from among the 28. Other courses deemed relevant by the student may count toward the minor with approval from the Dean of the General College.

Courses approved for the minor include: Anthropology 4440 (Selected Topics) ; English 2120 (Black Literature) ; Geography 3032 (Africa South of the Sahara) ; History 2421, 2422 (History of Africa) ; History 4576 (The African-American Experience) ; Religion 1100 (Judiasm, Christianity and Islam) ; Political Science 4540 (Regional Political Patterns: Government and Politics of Africa South of the Sahara) ; Sociology 4560 (Race and Ethnic Relations) ; Independent Study (up to four hours for credit toward minor).

Irenology

A student may earn an undergraduate minor in irenology (peace studies) by successful completion of an interdisciplinary program of 18 semester hours. A separate program of study is developed for each student, but each student's program must include the three interdisciplinary seminars listed below and one other course from each of the areas listed below.

I. Peace and War
   History 4440, Interdisciplinary Seminar (Philosophy, Science, History)
   Anthropology 3310
   Political Science 4400 (Selected Topics: Politics of Developing Nations)
   Economics 4050
   Economics 4810 (Special Topics: Comparative Economic Systems)
   Sociology 4650

II. Peace and the Person
   Anthropology 4440, Interdisciplinary Seminar (Psychology, Philosophy, Anthropology)
   Sociology 4440 (Selected Topics: Collective Behavior)

Sociology 4440 (Selected Topics: Propaganda)
Psychology 4551
Political Science 4270

III. Strategies of Peace
Economics 4810 (Special Topics: Interdisciplinary Seminar in Economics Science, Political Science)
Political Science 3120
Political Science 4720
History 4570
Geography 4230

Approval of the program coordinator is required in order to enter the program. For further information concerning this program, contact the Office of the General College.

Latin American Studies

(For a description of this program, see page 62.)

Planning

(For a description of this program, see page 62.)

University Studies

Watauga College

Watauga College is a residential college administered by the General College for a selected cross section of students who reside in one residence hall and take two-thirds of their academic work together in a multidisciplinary course combining humanities and social sciences. This work meets equivalent general education requirements and general electives. Emphasis is given by the faculty not only to a multidisciplinary approach but to the development of a sense of community and self-awareness among the students as well as an involvement in related co-curricular projects. For further information on Watauga College, contact the Director of Watauga College, The General College.

The courses of instruction offered are as follows:

University Studies 1101, 1102. Interdisciplinary Studies in Humanities and Social Science/(10, 10). F,S,

A multidisciplinary study in the humanities and social sciences in which basic problems of civilization will be considered: problems of subsistence and survival; problems of living together; problems of ideology and aesthetic satisfaction. The courses count as general education credit.

University Studies 4558. Practicum in Outward Bound Education/(4).F,S,SS,

Through the experiences in the wilderness, the student will learn at an outward bound center skills in camping, survival, moutaineering and be trained in fitness. The goals of the course will be centered around encouraging self-awareness and personal responsibility, developing a sense of conscience and competence, stimulating awareness of nature and human relationships, and integrating all aspects of one's personal life.

The College of Arts and Sciences

William C. Strickland, Dean

Leland L. Nicholls, Assistant to the Dean

In cooperation with other colleges of the university, the College of Arts and Sciences strives:

To provide a liberal education for all Appalachian students.

To offer instruction appropriate for specialization in the natural sciences, social sciences, humanities, and mathematics.

To prepare students for certain professions.

To prepare students for entrance into certain professional schools.

To prepare students for graduate study and research.

Departments

The College of Arts and Sciences consists of the following thirteen departments:

Biology
Chemistry
English
Foreign Languages
Geography
Geology
History
Mathematical Sciences
Philosophy and Religion
Physics
Political Science
Psychology
Sociology and Anthropology

Degrees Offered

The College of Arts and Sciences offers the Bachelor of Arts degree with a major in each of the thirteen departments. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in biology; chemistry; English; French; history; mathematics; physics; Spanish; science with concentration in biology, chemistry, earth science, or physics; and social science with concentration in anthropology, economics, geography, history, political science, or sociology. In cooperation with the North Carolina Baptist Hospital and the Bowman Gray School of Medicine it offers the Bachelor of Science degree in Medical Technology. For information concerning this degree see the Department of Biology.

To be admitted to the College of Arts and Sciences as a candidate for a baccalaureate degree a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least 2.00 (which must be maintained).
3. Completed English 1000, 1100.
4. Been accepted by a department in the college as a major in that department.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairman of the Department of Secondary Education.

Bachelor of Arts Degree

To earn the Bachelor of Arts degree in the College of Arts and Sciences, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages places students at the level which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 24 to 36 semester hours from one of the fields listed below:

Anthropology	History
Biology	Mathematics
Chemistry	Philosophy and Religion
Economics*	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish

A student must have at least a 2.00 grade-point average on all work in the major at Appalachian. A transfer student must complete at least eight semester hours of work in his major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian. *Specific requirements for each departmental major preface the list of courses offered by the department.*

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* In cooperation with the Department of Economics, which is a part of the College of Business, the College of Arts and Sciences offers the Bachelor of Arts degree in economics. For additional requirements, see the Department of Economics.

5. Completion of a minor consisting of 12 to 18 semester hours from a department other than the departments of administration, supervision and higher education; elementary education; counselor education and research; reading education; and secondary education. A transfer student must complete at least four semester hours in his minor at Appalachian.
6. Electives to complete 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

A candidate for the Bachelor of Arts degree may qualify for a teaching certificate by admission to professional education courses through the chairman of the Department of Secondary Education and by completing all academic and professional education requirements for certification.

Bachelor of Science Degree
(with teacher certification)

For the requirements for the Bachelor of Science degree with teacher certification, see page 140.

Bachelor of Science Degree
(without teacher certification)

The College of Arts and Sciences offers only one degree program (in medical technology) leading to the Bachelor of Science degree without teacher certification. To earn this degree, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major in medical technology consisting of 46-50 semester hours at Appalachian and 32 semester hours at the North Carolina Baptist Hospital and Bowman Gray School of Medicine. See page 63 for details.

   A student must have at least a 2.00 grade-point average on all work in the major at Appalachian. A transfer student must complete at least eight semester hours of work in his major at Appalachian and have at least a 2.00 grade-point average on all work in the major at Appalachian.
4. Electives to complete 122 semester hours.

5. Completion of residence requirements.
6. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
7. Recommendation of the faculty.

Meeting graduation requirements is the responsibility of the student.

Interdisciplinary Minors

Latin American Studies

A student may earn an undergraduate minor in Latin American studies by successful completion of an interdisciplinary program which must include: (1) two years of college Spanish or Portuguese or the equivalent; (2) at least 16 semester hours, including Geography 3031; History 2301, 2302, 4320; and Spanish 3040, 4010; (3) at least two semester hours in an interdepartmental seminar or appropriate research project. Courses which a student elects to count toward this minor cannot also be included in a major. For information concerning this program contact the Department of History.

Planning

A student may earn an undergraduate minor in planning by successful completion of an Interdisciplinary program of 18 semester hours including Geography 2410, 3430, 3440, and 4800. Seven semester hours must be selected from the following outside the student's major program: Geography 2300; Political Science 1100, 2150; Sociology 4100, 4650; Economics 4550, 4810; Business Administration 4850; and History 4574. In addition, the student must take Mathematics 3810 if not otherwise required in his major program. For further information concerning the minor in planning see page 81.

Department of Biology

I. W. Carpenter, Jr., Chairman

The objectives of the Department of Biology are to provide a cultural background in the life sciences as a part of every student's general education; to prepare students to teach biology; to prepare students to meet admission requirements of professional schools; to prepare professional biologists; to provide courses in biology for teacher certification in other areas such as home economics, physical education and science.

A major in biology leading to the Bachelor of Arts degree consists of 24 semester hours in biology in courses numbered above the 1100 level. This must include 2201-2202; 2204-2205; 12 semester hours of electives in biology. In addition, the biology major must take Chemistry 1101-1102, Physics 1101-1102, and Mathematics 1020 or 1110 or Mathematics 1110-1120.

A minor in biology consists of 12 semester hours above the 1100 level courses.

A major in biology leading to the Bachelor of Science degree in Medical Technology consists of 90 semester hours of work at Appalachian and 32 semester hours of work at the Baptist Hospital. The 90 semester hours at Appalachian include 40-44 semester hours in general education; 15 semester hours in biology, including Biology 1101-1102, 3300, 3308, 4554; 16 semester hours in chemistry, including Chemistry 1101-1102, 2201-2202; and 15-19 semester hours in electives. Courses taken at Baptist Hospital include Clinical Chemistry (9 semester hours), Clinical Microbiology (10 semester hours), Clinical Microscopy (9 semester hours) and Blood Banking (4 semester hours). The first three years of the program are spent on the campus at Appalachian State University, and the fourth year is spent at North Carolina Baptist Hospital and Bowman Gray School of Medicine. For further information consult with the chairman of the department.

A major in biology leading to the Bachelor of Science degree and teacher certification consists of 24 semester hours above the 1100 level. This must include 2201-2202, 2204-2205, 3300, 3308, 4554, 4555 or 3301. In addition, the biology major must take Chemistry 1101-1102, Physics 1101-1102, and Mathematics 1020-1110 or Mathematics 1110-1120.

For the curriculum for a major in science and concentration in biology leading to the Bachelor of Science degree and teacher certification see page 140.

A major in biology for the Master of Arts degree for secondary teachers requires a minimum of 30 semester hours credit with a thesis or 36 hours without a thesis. Twenty-four of the credits must be in biology and include Biology 4554, 4555, 5000, 5501, 5503, 5506, and 5514. Nine hours credit are required in education.

A major in biology for the Master of Arts degree in the junior college teaching program requires the same as above. Four hours are required in education.

A major in biology for the Master of Science degree requires 30 hours in biology including a thesis. Required courses include Biology 4554, 5000, and 5505.

A major in biology for a Specialist in Science degree consists of a minimum of 24 semester hours in biology. Required courses include 6610 and 6500. For further information see the Graduate School Section of this catalog.

Courses of Instruction in Biology and General Science

(For a description of the notation used in the following list of courses, see page 42.)

Biology

1101-1102. Introduction to Life Science/(3-3).F;S;SS.
A survey of living organisms and their relationship to each other and to their environment. Study of topics from morphology, physiology, embryology, and genetics with particular reference to man and healthful living. Lecture two hours, laboratory two hours.

1107. Principles of Biology/(3).F;S;SS.
An experimental approach to the basic concepts of life science that are applicable to the elementary school curriculum. *Restricted to elementary education majors.* Lecture two hours, laboratory two hours.

2201. Invertebrate Zoology/(3).F.
The taxonomy, morphology, and physiology of the invertebrates. Prerequisite: BIO 1101-1102. Lecture two hours, laboratory two hours.

2202. The Vertebrates/(3).S.
The origin, evolution, anatomy, physiology, taxonomy, and natural history of the vertebrates. Prerequisites: BIO 1101-1102 or equivalent. Lecture two hours, laboratory two hours.

2204. Botany I./(3).F.
Historical backgrounds of botany, principles of cytology, physiology, anatomy, and morphology of the seed plants. Prerequisites: BIO 1101-1102. Lecture two hours, laboratory two hours.

2205. Botany II/(3).S.
A phylogenetic approach to the reproduction, anatomy, and morphology of representative plants from each division. Prerequisite: BIO 2204. Lecture two hours, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.

3300. Cell Biology/(3).F;S;SS.
A study of the fundamental cellular processes. Prerequisites: BIO 1101-1102 and CHE 1101-1102. Lecture two hours, laboratory two hours.

3301. Introductory Animal Physiology/(3).S.
Fundamental principles of animal physiology. Prerequisites: BIO 1101-1102 and CHE 1101-1102. Lecture two hours, laboratory two hours.

3302. Ecology/(3).F.
Principles of ecology, energy flow, adaptations, associations, succession, abiotic factors, economic aspects, and distribution of organisms. Prerequisites: BIO 1101-1102 or equivalent. Field projects are required. Lecture two hours, laboratory two hours.

3303. Non Vascular Cryptograms/(3).F.
A morphological and taxonomic investigation of the Algae, Liverworts, and Mosses. Techniques of identification, collection, and preservation will be stressed in the laboratory. Prerequisite: BIO 2205. Lecture two hours, laboratory two hours.

3304. Systematic Botany/(3).S.
The general principles of the taxonomy of the vascular plants utilizing elements of the local flora as laboratory material in the consideration of identification, nomenclature, classification, and evolutionary mechanism. Prerequisite: BIO 2205. Lecture two hours, laboratory two hours.

3308. Bacteriology/(3).F;S;SS.
A study of the morphology and physiology of bacteria and their relation to man. Prerequisites: BIO 1101-1102 and CHE 1101-1102. Lecture two hours, laboratoy two hours.

3309. Comparative Vertebrate Embryology/(3).S.
Gametogenesis, fertilization, and structural development of the vertebrate embryo. Prerequisites: BIO 1101-1102. Lecture two hours, laboratory two hours.

3310. Marine Biology/(3).S.
Introduction to the more common marine organisms, including morphology, physiology, taxonomy, ecology, and economic aspects. Lecture two hours, laboratory two hours.

3318. Outdoor Recreation: An Ecological and Behavioral Approach/(2).S.
This course is designed to teach the recreation manager better to understand the complex interactions between the recreation resource and the human

user. Recreation is described and studied as need-fulfilling behavior which can be enhanced by an understanding of the biological entities (flora and fauna) and their ecological relationship. Same as PSY 3318.

3350. Biological Science Investigations/(3).S.

A course designed expressly for elementary majors who choose their academic concentration in science. Topics from modern biology which are introduced in the upper elementary school will be stressed. Prerequisites: BIO 1107 and PHS 1001-1002. Lecture two hours, laboratory two hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4550. Nature Study/(2).SS.

Observation of common plants and animals; methods of collecting, organizing, and presenting nature study materials in the grades. Not open to biology majors for credit.

4551. Ornithology/(3).S;SS.

The morphology, physiology, behavior, ecology and identification of birds. Early morning field trips are required. Extended field trips to a variety of habitats will be arranged. Prerequisites: BIO 1101-1102 or equivalent. Lecture two hours, laboratory two hours.

4552. Entomology/(3).F.

A comparative survey of the Insecta and related arthropods with an emphasis on morphology and systematics. Methods of collecting and preserving insects are covered. Prerequisites: BIO 1101-1102 or permission of the instructor. Lecture two hours, laboratory two hours.

4553. Histology/(3).F.

Microscopic anatomy of the vertebrate body, including a study of the principal tissues and organs. Prerequisites: Senior standing and 16 semester hours of undergraduate biology. Lecture two hours, laboratory two hours.

4554. Genetics/(3).F.

A study of principles of variation and heredity governing plants and animals with special reference to man. Prerequisites: BIO 1101-1102.

4555. Plant Physiology/(3).F;S;SS.

A study of the basic principles of plant physiology and fundamental processes such as cell properties, water relations, growth, photosynthesis, respiration, and mineral nutrition. Prerequisites: BIO 2204-2205 and CHE 1101-1102. Lecture two hours, laboratory two hours.

4556. Mycology/(3).S;SS.

An investigation of the fungi with particular reference to the techniques of working with these organisms. Lecture two hours, laboratory two hours.

4557. Ichthyology/(2).S;SS.

Taxonomy, distribution and ecology of fresh-water fish of eastern North America. Management practices will be emphasized. Prerequisites: Senior standing and 16 semester hours of undergraduate biology.

4559. Mammalogy/(3).F;SS.

The natural history, distribution, adaptations, taxonomy and economic importance of mammals. Field trips and visits to zoos will be arranged. Prerequisite: BIO 2202 or equivalent. Lecture two hours, laboratory two hours.

4580. Field Biology of Continental U.S.A./(5).SS.

Ecological investigations of major habitats in the U.S. Prerequisites: 16 hours in biology and consent of the instructor.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.

A study of bibliographical problems, types of research, the literature and methods of scientific writing. Required in the first semester of beginning graduate students.

5500. Independent Study/(1-4).F;S;SS.

5501. Advanced Animal Ecology/(3). F;SS.

Organization, structure, dynamics of ecosystems and component populations, emphasizing quantitative and experimental aspects of ecology. Lecture two hours, laboratory two hours.

5502. Freshwater Biology/(2).SS.

A study of the physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Largely a field course dealing with various approved methods of studying fresh water. Lecture one hour, field work two hours.

5503. Bacteriology of Water, Milk, Food, and Sewage/(3).S;SS.

Laboratory and field methods dealing with the sanitary aspects of foods and food handling; sources and kinds of bacteria in milk, water, and sewage with their sanitary significance. Prerequisite: three hours of undergraduate bacteriology. Lecture two hours, laboratory two hours.

5504. Taxonomy of Vascular Plants/(3). SS.

A study of the gross structure, reproduction, and development of the spermatophytes. Special emphasis is placed upon the classification and nomenclature of the spermatophytes. Lecture two hours, field work two hours.

5505. Master's Thesis/(4).F;S.

5506. Animal Physiology/(3).S.

Physiology of the sensory, nervous, muscular, circulatory, and respiration systems; elimentation, excretion, reproduction and hormone coordination. Laboratory experiments, reports and readings. Lecture two hours, laboratory two hours.

5509. Evolution/(2).F;SS.

Nature of evolutionary mechanisms, evidence of evolution, adaptations and trends.

5512. Local Flora/(3).SS.

A course designed specifically for elementary school teachers. A study of the common flora and economic plants of North Carolina including the collection, common name identification, and methods of preservation. Lecture two hours, laboratory and field work two hours.

5514. Plant Anatomy and Morphology/(3).S;SS.

A general survey of the external and internal structure of plants; detailed study of anatomy and morphology of representative plants from all the divisions. Lecture two hours, laboratory two hours.

5515. Plant Ecology/(3).SS.

A study of units of vegetation and plant succession, factors of the habitat, soils and climate, taxonomy of local flora and preparation of the herbarium material. Lecture two hours, field work two hours.

5517. Parasitology/(3).F;SS.

A survey of protozoan, helminthic and arthropod parasites with emphasis on causation and prevention of disease. Lecture two hours, laboratory two hours.

5520. Developmental Biology/(3).S;SS.

An investigation of fundamental patterns and principles of the development of organisms. The establishment of form and function is examined as an expression of the genetic endowment of the organism. Prerequisite: BIO 4554.

5522. Cryptogamic Botany/(2).S.

Taxonomy, morphology, and ecology of the cryptogamic flora exclusive of the thallophytes. Lecture one hour, laboratory two hours.

5530. Selected Topics/(1-3). On demand.

5550. Seminar/(1).F;S.

Presentation of one research paper for each year of full-time graduate study. One hour credit given during the semester in which paper is presented. Required of all graduate students.

5555. History of Biology/(2).S;SS.

A survey of the history of biology with special emphasis upon experiments which have led to the discovery of the more important biological principles and concepts.

6601. Biogeography/(2).F;SS.

The biological, climatological, geographic, and geological factors which affect the distribution of animal and plants. Patterns of distribution will be studied in relation to various sizes of geological units.

6610. Advanced Seminar in Current Research Topics/(2).S.

Lectures, readings, and discussions dealing with biological principles and theories.

6614. Current Topics in Molecular Biology/(2).F.

Recent advances in biology at the subcellular level. Lecture and laboratory.

6618. Advanced Bacteriology/(2).S.

Modern techniques and procedures in bacteriology, including instrumental and biochemical methods of analysis and interpretation of data.

6500. Independent Study/(2-4).F;S;SS.

Student selects an area of investigation which must be approved by instructor and advisor.

6530. Selected Topics/(1-3). On demand.

General Science

4401. Methods of Elementary School Science/(2)F;S.

A survey of scientific principles and concepts suitable for the elementary grades. Emphasis is placed upon the construction of units for the various grade levels, methods of teaching these units, related demonstrations and experiments, and the correlation of the science units with other instructional areas.

4450. Science in the Elementary School/(2).SS;EX.

A course designed for teachers with limited science background. Basic concepts, use of simple materials for demonstrations, and the problem solving approach are stressed. Lecture and demonstrations. Available as a workshop.

5510. Environmental Education/(2).S;SS;EX.

A study of environmental problems relevant to man. Designed primarily for elementary education majors.

Department of Chemistry

George B. Miles, Chairman

The objectives of the Department of Chemistry are to prepare students in chemistry for careers in industry, government service, high school and junior college level teaching and to continue study in chemistry and related areas at the graduate or professional school level.

This department also strives to provide a basic understanding of the principles of chemistry and physical science related to all areas of scientific study and to provide the student with an appreciation for the impact of science and technology in today's society.

A major in chemistry leading to the Bachelor of Arts degree consists of 32 semester hours above the 1000 level. The required courses are: Chem-

istry 2201-2202, 2210, 3301-3302, 3303, 3304, 3404, 3405, 4400 and five semester hours selected from other chemistry courses. The chemistry major must take Physics 1150-1151; an additional 6 to 8 hours in either biology (3300, 3301, 3308 and 4554 are recommended); physics (courses at the 1000 level, 3350 and 4770 are not accepted); or geology (3000, 3001, 3303, 4004, and 4002 are recommended); and Mathematics 1110 and 1120. A minor in chemistry consists of 12 semester hours above 1000 level chemistry (Chemistry 2210 recommended).

A major in chemistry leading to the Bachelor of Science degree and teacher certification consists of 22 hours above the 1000 level. The required courses are 2201, 2210, 3301, 3303, 3404, and seven hours selected from other chemistry courses. The chemistry major must take either Physics 1101-1102 or 1150-1151, two semesters of biology and Mathematics 1110 and 1120.

For the curriculum for a major in science and concentration in chemistry leading to the Bachelor of Science degree and teacher certification see page 140.

In the Master of Arts degree in the junior college teaching program, a major in chemistry consists of a minimum of 30 semester hours of credit. The 30 semester hours credit includes a thesis for four hours credit (Chemistry 5505). A minimum of four semester hours credit is required in education and psychology (eight semester hours credit required for secondary certification). The following chemistry courses are required: 5002 (to be taken fall term of first year), 5050, 5060, 5070, 5090 and 5505. In the Master of Science degree program, a major in chemistry consists of 30 semester hours of courses including a thesis for four semester hours credit (Chemistry 5505). The following chemistry courses are required: 5002 (to be taken fall semester of first year), 5050, 5060, 5070, 5090, and 5505. The remaining semester hours, for a total of 30 semester hours, will be elected from courses in chemistry numbered 4500 and above, and approved physics and mathematics courses.

All graduate students are required to participate in weekly seminar discussion periods each semester in residence.

All master's degree candidates must pass comprehensive examinations and each must present and defend the thesis before the chemistry faculty.

Courses of Instruction in Chemistry and Physical Science

(For a description of the notation used in the following list of courses, see page 42.)

Chemistry

1101. Introductory Chemistry I/(4).F. A study of the fundamental principles of chemistry emphasizing modern atomic theory, the structure and behavior of atoms, the properties and states of matter, energy relations, periodicity and mole concepts. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours.

1102. Introductory Chemistry II/(4).S.

A study of properties of solutions, acid-base concepts, equilibria, elementary thermodynamics, elementary kinetics, electrochemistry. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours. Prerequisite: CHE 1101.

Laboratory sections numbered above 85 are designed to provide an opportunity for the student to engage in more individually oriented experiments requiring an interest above the ordinary. Students, regardless of their curriculum, are free to elect these laboratory sections after consultation with the instructor.

1110. Introductory Chemistry IIA/(4).S.

A study of the practical aspects of chemistry as related to living systems including solutions, acid-base relationship, the chemistry of simple organic systems and their relationship to naturally occurring macromolecules. Laboratory experiments to supplement the study of the listed topics. Prerequisite: CHE 1101. Not open to science majors. Lecture three hours, laboratory three hours.

1200. Chemical Calculations/(1).F.

An introduction to logical problem solving as related to introductory chemistry. The course to be offered the same semester as Chemistry 1101 starting after the beginning of the semester. Cannot be taken after completion of introductory chemistry.

2201-2202. Organic Chemistry/(4-4). F-S.

A study of the properties and reactions of the compounds of carbon. Emphasis on mechanisms and structural influences. Laboratory practice in techniques, class reactions and synthesis. Prerequisite: CHE 1102. Lecture three hours, laboratory three hours.

2210. Quantitative Analysis/(4).F.

An introduction to analytical chemistry, including equilibria, Beer's Law, oxidation-reduction reactions, ion exchange and solvent extraction; the basic methods of quantitative analysis are introduced and practiced with laboratory unknowns. Prerequisite: CHE 1102. Lecture three hours, laboratory three hours.

2500. Independent Study/(1-4).F;S;SS.

3301-3302. Physical Chemistry I-II/(3-3).F-S.

Physical Chemistry I is a detailed treatment of the theories underlying the thermodynamic properties and behavior of gases, liquids and solids. Phase and chemical equilibria, electrochemical cells and irreversible processes in solution. Physical Chemistry II is a treatment of kinetic molecular theory, kinetics, elementary quantum theory, symmetry and spectroscopy. Prerequisites: CHE 1102, MAT 1120, and a year of physics. Lecture three hours.

3303, 3304. Physical Chemistry Laboratory/(1,1).F,S.

Experimental investigations which supplement the study of the topics in physical chemistry. Applications of computer techniques for data reduction and manipulation will be introduced and utilized. 3301 is co-requisite or prerequisite for 3303 and 3302 is co-requisite or prerequisite for 3304.

3307. Scientific Glass Blowing/(1).S.

Provides the student with an opportunity to learn the properties of scientific glasses with respect to performing simple glass working operations. Prerequisite: CHE 1102 and permission of the instructor. Laboratory three hours. This course will be graded on a satisfactory basis only.

3404. Inorganic Chemistry/(3).S.

A detailed study of the elements and their compounds based on atomic structure and periodicity. Chemical bonding as it relates to molecular structure and chemical reactivity. Aqueous and non-aqueous solvent systems, acid-base theories, and the chemistry of complexes. Prerequisite: CHE 1102. Lecture three hours.

3405. Inorganic Chemistry Laboratory/(1).S.

Experimental investigations which supplement the study of inorganic

chemistry, involving reactions in inert atmospheres, vacuum systems and hot tubes. Co-requisite or prerequisite: CHE 3404. Laboratory three hours.

3500. Independent Study/(1-4).F,S,SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4400. Senior Research/(3).F,S.

A laboratory research project under the supervision of a staff member. An oral report of the work in progress will be made at the regular seminar and a written report of the results is to be submitted to the chemistry faculty upon completion. Open to chemistry majors with senior standing.

4550. Inorganic Reaction Mechanisms/(3).S.

A study of the kinetic and mechanistic nature of inorganic reactions. Included are substitution reactions of octahedral and square planar complexes, the stereochemistry of substitution reactions, isomerization and racemization reactions, oxidation and reduction reactions, and selected miscellaneous topics. Prerequisite CHE 3404. Lecture three hours.

4560. Instrumental Methods of Analysis/(4).S.

A study of some of the modern instrumental methods of analysis including electrochemistry, atomic and molecular spectroscopy, magnetic resonance spectrometry, mass spectrometry and gas chromatography. Prerequisite: CHE 2210. Lecture three hours, laboratory three hours.

4570. Physical Chemistry III/(3).F.

A study of theories of bonding and structure, including molecular symmetry, group theory and quantum mechanics, the molecular orbital theory, the ligand field theory and excited states. Prerequisite: CHE 3302. Lecture three hours.

4580. Biochemistry/(3).S.

Properties and metabolism of carbohydrates, lipids and proteins. Prerequisite: CHE 2202. Lecture three hours.

4581. Biochemistry Laboratory/(1).S.

Experimental investigations which supplement the study of the topics in biochemistry. Chemistry 4580 is co-requisite or prerequisite to Chemistry 4581. Laboratory three hours.

4590. Qualitative Organic Analysis/(4).F;S.

A systematic procedure for the identification of organic compounds. The lecture will emphasize spectral interpretation (UV, IR, NMR, MS, ESR, ORD and CD) in the identification process while the laboratory practice will utilize both classical and spectral methods. Prerequisite: CHE 2202. Lecture two hours, laboratory six hours.

4600. Selected Topics/(1-4). On demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the chemistry curriculum. May be repeated for credit when content does not duplicate. Prerequisite: upper-division status or departmental permission.

4610. History of Chemistry/(3).S.

A study of the developments of chemistry as a science with emphasis on the development of basic concepts, ideas and theories. Prerequisite: a year of introductory chemistry. Lecture three hours.

Graduate Courses

5002. Chemical Literature/(1).F.

A study of the literature of chemistry with literature search and bibliographic methods introduced. To be taken fall term of first year. Lecture one hour.

5050. Advanced Inorganic Chemistry/(4).F.

An investigation of inorganic stereochemistry, atomic orbitals, Valence Bond Theory, the Pauli Exclusion Prin-

ciple, Molecular Orbital Theory, equivalency or orbitals, the chemistry of the transition elements, and discussion of chemistry of the elements, according to type, with regard to coordination number and stereochemistry. Lecture four hours.

5060. Advanced Analytical Chemistry/(4).F.

A study of the methods of chemical analysis utilizing atomic and molecular spectroscopy, magnetic resonance, mass spectrometry, and electrochemical methods of analysis including electrogravimetric methods, coulometry, potentiometry, amperometry, polarography, and stripping analysis. Prerequisite: CHE 4560. Lecture four hours.

5070. Advanced Physical Chemistry/(4).S.

Rigorous treatment of the laws of thermodynamics and statistical mechanics. Applications to gases, solutions and other condensed phases, studies of surface effects. Lecture four hours.

5090. Advanced Organic Chemistry/(4).S.

A study of the type reactions of organic molecules. Nucleophilic aliphatic substitution, electrophilic aromatic substitutions, addition to multiple bonds, free radical reactions and rearrangements. Lecture four hours.

5500. Independent Study/(1-4).F,S,SS.

5505. Master's Thesis/(4).F,S,SS.

5530. Selected Topics/(1-3). On demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the chemistry curriculum. May be repeated for credit when content does not duplicate. Prerequisite: graduate status.

Physical Science

1001-1002. Physical Science/(3-3). F-S-SS.

An introduction to the concepts of matter and energy and their interactions. The topics chosen are based on those suggested by the N. C. State Department of Public Instruction to be included in the curriculum of primary and elementary science classes. This course is structured principally to meet physical science requirements for primary and elementary majors. Sections labeled K-3 are open only to primary education majors. Other non-science majors may elect those sections designated 4-9 to fulfill general college science requirements. Lecture two hours, laboratory two hours.

Department of English

Loyd H. Hilton, Chairman

The aim of the Department of English is to give students competency in written and oral composition and in the interpretation and appreciation of literature. To this end, all students are required to take, or be exempted from, the Freshman English Series 1000-1100. *(This sequence is prerequisite to all other courses in English.)*

A major in English leading to the Bachelor of Arts degree consists of 36 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement. Although no course in English above the freshman level is specifically required, at least 24 hours of the work must be done at the 3000 level or above. Upon acceptance into the upper division as a major, the student should consult his English advisor for help in planning a program of study appropriate to his particular need and objectives.

A minor in English consists of 18 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement.

A major in English leading to the Bachelor of Science degree and teacher certification consists of 36 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement. Although no course in English above the freshman level is specifically required, at least 24 hours of the work must be done at the 3000 level or above. Required also for the teaching degree are Secondary Education 4620 and six hours of a foreign language beyond the elementary course. Since teacher certification in English requires a balanced preparation in several areas, each student will be provided information indicating current state and professional guideline requirements, as well as a list of courses appropriate to each guideline. Prior to student teaching, the candidate for teacher certification must satisfactorily complete at least half of the minimum requirements under these guidelines in each area of advanced study at the 3000 and 4000 levels. *Although it is the student's responsibility to meet the guideline requirements, he is expected to work closely with his English advisor in planning and fulfilling a suitable program of studies.*

Three programs are offered leading to the Master of Arts degree in English. Two are in teacher preparation—the junior college program and the secondary school program—and require certain courses in education. The third program, the academic, is composed of courses in English alone or with an optional minor in a related field other than education.

For the Master of Arts degree for the junior college program and the secondary school program, a minimum of 24 hours (20-22 including a thesis) of English must be acquired, including English 5000, Bibliography and Research, and a program of electives to be chosen by the student in consultation with his graduate advisor in English. In addition, for the junior college program, four hours of education are required, and for the secondary school program, eight hours of education are required.

For the academic Master of Arts degree, a minimum of 30 hours of graduate credit must be acquired. These may include a minor of up to six hours in a related discipline. They also will include four hours credit for the thesis, which is required, and two hours credit for English 5000, Bibliography and Research, which is also required. In consultation with his graduate advisor in English, the student should plan for a minimum of 18 hours of electives in English. In addition to course work, each candidate will demonstrate proficiency in reading a foreign language. For requirements concerning the final comprehensive examination for the master's degree, see the discussion of these in the Graduate School section of this catalog or consult the chairman of the department.

The Department of English offers an honors program on the freshman, sophomore, junior, and senior levels. In order to remain in the program

students must maintain at least a B average in honors work. Students meeting the requirements of the Junior-Senior Honors Program (English 3510, 3515, and 4510) with a grade of B will graduate with "Honors" in English. Those meeting the requirements with a grade of A will graduate with "Highest Honors" in English.

Courses of Instruction in English

(For a description of the notation used in the following list of courses, see page 42.)

English Honors

1510. Freshman Honors Seminar/(3). F;S.

Development of individual research and original critical thought; composition. Collateral reading in English, American, or world literature. Members selected by the Department of English.

2510. Sophomore Honors Seminar in English, American, or World Literature/(3).F.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

2515. Sophomore Honors Seminar in English, American, or World Literature/(3).S.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

3510. Junior Honors Seminar/(3).F.

3515. Junior Honors Seminar/(3).S.

Two in-depth units each semester on major English, American, or world authors, genres, or literary movements. Intradepartmental instruction. Content varies each semester. By invitation or application.

4510. Senior Honors Thesis/(2).S.

Independent study and research. Honors thesis directed by a member of the English Department and graded by a departmental committee. Oral examination.

Prerequisite: Completion of ENG 3510 and 3515 with at least a *B* average.

English

0100. Laboratory in Writing/(0).F;S.

Providing self-instruction and tutoring, the laboratory is a university-wide service for any students who lack necessary skills in composition.

1000. Elementary Composition and Rhetoric/(3).F;S.

An introduction to the various types of expository essays and to the basic principles of research writing. A grade of *C* or higher in this course fulfills the English Proficiency requirement for teaching majors.

1100. Introduction to Literature/(3). F;S.

Analysis of fiction, poetry, and drama. Continued emphasis on composition through literary essays. Prerequisite: ENG 1000.

ENGLISH 1000 AND 1100 ARE PREREQUISITES FOR ALL COURSES WHICH FOLLOW.

2010. English Literature/(3).F.

A study of major writers from the beginning of British literature through the eighteenth century.

2020. English Literature/(3).S.

A study of major British writers from the Romantics through the present.

2030. World Literature/(3).F.

Masterpieces of the Orient, in translation. Course may involve comparative study of selected Western masterpieces.

2040. World Literature/(3).S.

Masterpieces of the Western World, in translation.

2050. Elements of Journalism/(2).F.

Writing news stories, editorials, features, and reviews; make-up of school and college newspapers.

2100. Modern Studies/(3).F;S.

A study of recent literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination.

2120. Black Literature/(3).S.

A critical study of the work of outstanding Black writers.

2170. Cinema Appreciation/(2).F;S.

A critical introduction to cinema as an art form.

2310. American Literature/(3).F.

A study of major writers from the beginning of American literature through the romantics.

2320. American Literature/(3).S.

A study of major American writers from the beginning of realism through the present.

2500. Independent Study/(1-3).F;S;SS.

Independent research on a topic not offered in a scheduled course. Prior to registration, independent studies must be approved by the directing professor, the department chairman, and the dean of the College of Arts and Sciences.

3460. Advanced Composition and Grammar/(3).F;S;SS.

Practice in various types of expository writing. Emphasis on practical relationship between grammar and style.

3490. Workshop in the Teaching of English/(2).F;S.

Practical experience in the preparing and teaching of classes on poetry, fiction, and drama and in the assigning, evaluating, and grading of written work. Prerequisite: ENG 3460.

3500. Independent Study/(1-3).F;S;SS.

Directed, concentrated study of a special topic developed by the student.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing and ENG 3460. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

Content to vary; may be repeated for credit when content does not duplicate.

3610. Studies in the Principles of Language/(3).F.

An introduction to theories of language structure, language acquisition, and the functions of language within a cultural setting, with particular emphasis on semantics.

3650. Creative Writing/(2).F.

An introductory course in writing poetry and fiction, specifically the short story, with emphasis on techniques.

3660. Creative Writing/(2).S.

An advanced course in writing. Students may project a novel or work in poetry, drama, or the short story. Prerequisite: ENG 3650.

3780. Studies in Twentieth Century American Literature/(3).S.

A study of poetic and prose works most characteristic of modern American literature and thought. Emphasis on major writers.

3860. Studies in Eighteenth Century English Literature/(3).S.

A study of the literature written in England during the years 1660-1800. Each offering is limited to selected works and authors of the period.

3870. Studies in the English Romantic Movement/(3).F.

A study of selected works of Wordsworth, Coleridge, Southey, Scott and Byron, Shelley, Keats, with some attention to essayists and minor poets of the Romantic Movement.

3880. Studies in Twentieth Century English Literature/(3).F.

A study of major themes and literary techniques in Twentieth Century British Literature.

4590. Seminar in World Literature/(3). F;S.
A study of literary content, theories, and problems of a specific world-epoch.

4610. Seminar in Modern English Grammar/(3).F;S.
An examination of the syntactic structures of English as described by structural and transformational grammarians.

4660. Seminar in the History of the English Language/(2).F;S.
A study of the phonological, morphological, and cultural development of English, with particular emphasis on phonology.

4760. Seminar in Literary Criticism/(3).S.
Studies of the classical critics in translation and of the contemporary critics, with emphasis on specific techniques.

4770. Seminar in Early American Literature/(3).F.
Studies in the works of the founders of American political, religious, and literary culture as reflective of trends in intellectual history.

4780. Seminar in Nineteenth Century American Literature/(3).S.
Examination of the major authors under whose leadership American literature achieved world prominence.

4800. Colloquium/(1-4). On demand.
Content to vary; may be repeated for credit when content does not duplicate.

4820. Seminar in Early English Literature/(3).F.
An introductory study of medieval English literature and Middle English.

4830. Seminar in Elizabethan Literature I/(2).F.
A study of representative writers, with emphasis on Shakespeare's early dramas.

4840. Seminar in Elizabethan Literature II(2).S.
A study of representative writers, with emphasis on Shakespeare's late dramas.

4850. Seminar in Seventeenth Century English Literature/(3).S.
A study of literature written during the seventeenth century in England, with each offering limited to selected works.

4880. Seminar in the Literature of the Victorian Period/(3).F.
A study of major writers. Course content varies, with emphasis on poetry, fiction, or prose.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.
A study of bibliographical problems, types of research organization and reporting of research. Required in the first semester of beginning graduate students.

5500. Independent Study/(1-3).F;S;SS.
Directed study of a topic not offered in regularly scheduled course.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.
Content to vary; may be repeated for credit when content does not duplicate.

5570. Seminar in Masters of English Literature/(2).F.
Variable content. May be repeated once for credit when content does not duplicate. Emphasis will be indicated in term schedules.

5580. Seminar in Masters of American Literature/(2).S.
Variable content. May be repeated once for credit when content does not duplicate. Emphasis will be indicated in term schedules.

5590. Seminar in Masters of World Literature/(3).S.
Variable content. May be repeated once for credit when content does not duplicate. Emphasis will be indicated in term schedules.

5860. Seminar in Twentieth Century American Literature/(3).S.

5960. Seminar in Eighteenth Century English Literature/(3).F.

5970. Seminar in the English Romantic Movement/(3).S.

5990. Seminar in Twentieth Century English Literature/(3).F.

Department of Foreign Languages

J. Roy Prince, Chairman

The objectives of the Department of Foreign Languages are to teach students to pronounce, speak, understand, read, and write the language they are studying; to give them basic knowledge of the principles of grammar and syntax of the language; to help them gather valuable and interesting information and materials about the country and peoples whose language they are studying; to introduce them to the literature in the language and help them gain an appreciation for its masterpieces; to prepare them to be better citizens of the world through knowledge of the languages and cultures of peoples; to help them appreciate and be enthusiastic about foreign languages.

A major in French leading to the Bachelor of Arts degree consists of 24 semester hours above the foreign language requirement, including 2010, 2020, 3010, 3020, 3050, 3060, 3070 and 3080. A major in Spanish leading to the Bachelor of Arts degree consists of 24 semester hours above the foreign language requirement, including 2010, 2020, 3010, 3020, 3040, 4010, 4030 and 4550.

A minor in French or Spanish consists of 12 semester hours above the foreign language requirements, including 2010, 2020 and six semester hours of electives.

A major in French leading to the Bachelor of Science degree and teacher certification consists of a minimum of 30 semester hours above the course level of 1020, including 1040, 1050, 2010, 2020, 3010, 3020, 3050, 3060, 3070 and 3080. A major in Spanish leading to the Bachelor of Science degree and teacher certification consists of a minimum of 30 semester hours above the course level of 1020, including 1040, 1050, 2010, 2020, 3010, 3020, 3040, 4010, 4030 and 4550. The department recommends that a major in French or Spanish use his electives to build up a teaching competence in a related field.

The department offers a Master of Arts degree in French and Spanish for secondary school teachers and for junior college teachers. Prerequisite to graduate work are 30 semester hours of language study above the elementary level. A graduate student who does not have adequate undergraduate credits may begin graduate study if at the same time he is building up his undergraduate hours to the required level. For the master's degree, a minimum of 24 semester hours is required in the major field (French or Spanish). The remainder will be in education or electives. The electives may be in the major field, in another language, in education, or in another field, such as English. The only required course is Bibliography and Research, but there are several preferred electives. For further advice, consult the chairman of the Department of Foreign Languages.

The Foreign Language Laboratory

The Department of Foreign Languages has a 54 booth electronic language laboratory. In the laboratory, students listen and respond to prerecorded tapes which deal with the material covered in their courses. The main purpose of the laboratory is to increase the student's ability to pronounce, speak, and understand the language. The department believes that the laboratory increases the efficiency of language learning and that the extra hours spent in the laboratory can be the student's most productive study time.

Courses of Instruction in Foreign Languages

(For a description of the notation used in the following list of courses, see page 42.)

French

1010-1020. Elementary French/(3-3). F-S.

Understanding, speaking, reading and writing French. Audiolingual techniques are combined with required recording-listening practice in the language laboratory. Open to those with no previous preparation in French or those who make a low score on the French placement test. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate French/(3-3). F-S.

Intensive grammar review and training in understanding, speaking, reading and writing French. Prerequisite: two units of high school French and a good score on the French placement test, or FRE 1010-1020, or the equivalent. Recitation three hours and laboratory two hours a week.

2010-2020. Conversational French and Phonetics/(3-3).F-S.

Practice in everyday conversational French and the improvement of diction. Practical study of the International Phonetic alphabet as it applies to French. Recitation three hours and laboratory two hours a week. Required of French majors. Prerequisite: FRE 1040-1050 or the equivalent, or by special placement.

2500. Independent Study/(1-3).F;S.

3010-3020. Introduction to French Literature/(3-3).F-S.

An introduction to the major writers of the French literary tradition and *explications de texte*. Selections and complete works of poetry, fiction, theater, and essay. In the first semester: Middle Ages through the eighteenth century. In the second semester: nineteenth and twentieth centuries. Lectures and discussions; short essays and tests. Conducted in French. Required for French majors. Prerequisite: FRE 1040-1050 or the equivalent.

3050-3060. French Civilization/(3-3). F-S.

Contemporary France as seen through its history, institutions, customs, and arts. Reading and discussion in French. Required of French majors. Prerequisite: FRE 1040-1050 or the equivalent.

3070-3080. Advanced Grammar, Syntax and Composition/(3-3).F-S.

A study of French grammar, idioms, and syntax. Prerequisite: FRE 1040-1050 or the equivalent. Required of French majors.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.

A study of the methods and tools of research in French and Spanish.

5005. Advanced Conversation, Phonetics and Diction/(3).F;SS.

Intensive study of the sound system of the French language and its correct reproduction. Advanced oral practice. Class recitation three hours and laboratory. Offered 1977 SS.

5010. History of the French Language/(3).S;SS.

The evolution of French from Latin to its present form; integral developments and external influences. Study of phonology, morphology and syntax of Old French and reading selected Old French texts. Alternate years with 5020. Not offered 1975-76. Offered 1976 SS.

5020. French Literature to 1500/(3). S;SS.

Study of the major writers of the medieval period and their contribution to the French literary tradition. Alternate years with 5010. Offered 1978 SS.

5030. French Literature of the Sixteenth Century/(3).F;SS.

Study of the major writers of the French Renaissance and early Baroque. Offered alternate years with 5050. Not offered 1976-77. Offered 1978 SS.

5040. French Literature of the Seventeenth Century (I)/(3).F;SS.

Study of the major writers of the French Baroque to 1650. Alternate years with 5041. Not offered 1975-76. Offered 1976 SS.

5041. French Literature of the Seventeenth Century (II)/(3).S;SS.

Study of the major writers of the Classical period. Alternate years with 5040. Offered 1977 SS.

5050. French Literature of the Eighteenth Century/(3).S;SS.

Study of the major writers of the Age of Enlightenment. Alternate years with 5030. Not offered 1975-76. Offered 1977 SS.

5060. French Literature of the Nineteenth Century (I)/(3).S;SS.

Study of the major writers of the Romantic period. Alternate years with 5061. Offered 1977 SS.

5061. French Literature of the Nineteenth Century (II)/(3).S;SS.

Study of the major writers of the latter half of the nineteenth century. Alternate years with 5060. Not offered 1975-76. Offered 1978 SS.

5070. French Literature of the Twentieth Century (I)/(3).F;SS.

Study of the major writers to 1940. Alternate years with 5071. Offered 1976 SS.

5071. French Literature of the Twentieth Century (II)/(3).F;SS.

Study of the major writers since 1940. Alternate years with 5070. Not offered 1975-76. Offered 1977 SS.

5500. Independent Study/(1-3).F;S.

5530. Selected Topics/(1-3). On demand.

German

1010-1020. Elementary German/(3-3). F-S.

Open to those with no previous preparation in German. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate German/(3-3). F-S.

Prerequisite: two units of high school German or GER 1010-1020 or the equivalent. Recitation three hours and laboratory two hours a week.

2500. Independent Study/(1-3).F;S.

3010. Readings in Contemporary German/(3).F.

Subjects included will be: culture, industry, commerce, political affairs—domestic and international. Increasing

use of oral German. Prerequisite: GER 1040-1050, or instructor's approval.

3020. Readings in German in the Humanities and Sciences/(3).S.

Selections will be taken from the humanities, the social and the physical and natural sciences based on the individual students' major interest. Prerequisite: GER 1040-1050, or instructor's approval.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

Latin

1010-1020. Elementary Latin/(3-3).F-S.

Open to those with no previous preparation in Latin or those who make a low score on the Latin placement test. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate Latin/(3-3). F-S.

Prerequisite: two units of high school Latin and a good score on the Latin placement test, or LAT 1020, or the equivalent. Three hours.

2500. Independent Study/(1-3).F;S.

3010. ***The Aeneid*****/(3).F.**

Prerequisite: LAT 1050 or four years of high school Latin or permission of the instructor. Key passages are selected for translation and discussion. Lecture three hours.

3020. The Roman Historians/(3).S.

Prerequisite: LAT 1050 or four years of high school Latin or permission of instructor. Translation of selected passages and discussion of literary values of Pliny, Sallust and Tacitus. Lecture three hours.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

Spanish

1010-1020. Elementary Spanish/(3-3). F-S.

Understanding, speaking, reading and writing Spanish. Development of knowledge of Spanish culture. Open to those with no previous preparation in Spanish or those who make a low score on the Spanish placement test. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate Spanish/(3-3). F-S.

Further development of understanding the Spanish language and culture through review of structures with emphasis on oral and reading comprehension and self-expression through speaking and writing. Prerequisite: two units of high school Spanish and a good score on the Spanish placement test, or SNH 1010-1020 or the equivalent. Recitation three hours and laboratory two hours a week.

2010-2020. Conversational Spanish/(3-3).F-S.

Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: SNH 1040-1050 or the equivalent or by special placement. Recitation three hours and laboratory two hours.

2500. Independent Study/(1-3).F;S.

3010-3020. Survey of Spanish Literature/(3-3).F-S.

Major writers of Spain. In the first semester: general introduction to literature; Middle Ages through the 17th

century. In the second semester: 18th-20th centuries. Required of Spanish majors.

3040. Culture and Civilization/(3).F.

An outline of the history and culture of Spain and Spanish America. Required of Spanish majors.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4010. Survey of Spanish-American Literature/(3).S.

The major writers of Spanish America.

4030. Advanced Grammar and Composition/(3).F.

A study of Spanish grammar, idioms, and syntax. Composition for improving facility in the written language in regard to form, style, syntax, rhythm, vocabulary and idiomatic usage. Required of Spanish majors.

4550. Spanish Phonetics and Diction/(3).S;SS.

Study of the sound system of the Spanish language with the articulatory description and analysis of the most important differences between the various dialects of American Spanish. Oral practice in the laboratory. Required of Spanish majors. Offered 1977 SS.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.

A study of the methods and tools of research in French and Spanish.

5010. History of the Spanish Language/(3).F;SS.

Study of the historical evolution and analysis of changes of the Spanish language with emphasis on orthography, pronunciation, syntax and semantics. Alternate years with 5020. Offered 1976 SS.

5020. Spanish Literature to 1500/(3). F;SS.

Mainly "Poema de Mio Cid," "Libro de Buen Amor," and "La Celestina." Alternate years with 5010. Not offered 1975-76. Offered 1978 SS.

5030. Poetry of the Golden Age/(3). S;SS.

Study of the major poets from the Renaissance until the Baroque. Alternate years with 5031. Not offered 1975-76. Offered 1976 SS.

5031. Drama of the Golden Age/(3). S;SS.

Study of the major dramatists from the Spanish Renaissance until Spanish Baroque. Emphasis on the *comedia*. Alternate years with 5030. Offered 1977 SS.

5032. Novels of the Golden Age/(3). S;SS.

Origin and development of chivalric, pastoral, and picaresque novel with special attention to Cervantes. Alternate years with 5040. Not Offered 1975-76. Offered 1977 SS.

5040. 19th Century Spanish Literature/(3).S;SS.

Study of the major writers of Spanish romanticism and realism. Alternate years with 5032. Offered 1978 SS.

5050. Modern Poetry in Spain and Spanish-America/(3).S;SS.

Study of the major poets from late 19th century until recent times in Spain and Spanish-America. Alternate years with 5051. Not offered 1975-76. Offered 1978 SS.

5051. Modern Spanish Novels/(3).F;SS.

Spanish novelists from Generation of '98 until recent times. Alternate years with 5050. Offered 1977 SS.

5060. 20th Century Drama in Spain and Spanish-America/(3).F;SS.
Study of the major dramatists of Spain from the Generation of '98 until post-civil war, and study of the major dramatists of Spanish-America. Alternate years with 5062. Not offered 1975-76. Offered 1976 SS.

5062. 20th Century Spanish-American Novels/(3).S;SS.
Beginning with Modernism and continuing until recent times. Alternate years with 5060. Offered 1976 SS.

5500. Independent Study/(1-3).F;S.

5530. Selected Topics/(1-3). On demand.

Department of Geography

Terry Epperson, Chairman

The major objectives of the Department of Geography are to:

1. Promote the understanding of the spatial dimensions of man's behavior within the physical and cultural systems of the earth and the role of planning in achieving improvement in those systems.
2. Offer a well-balanced curriculum which will aid students in finding productive places in society.
3. Maintain a staff dedicated to teaching, scientific research, and community-regional service.

A major in geography leading to the Bachelor of Arts degree consists of 36 semester hours in courses numbered above the 1000 level with the following courses required: Geography 2210, 2300, 3100, 3110, 4200, 4400, and 4800; Mathematics 3810; 13 semester hours of geography electives, with no more than seven hours of geography electives taken from regional courses. An appropriate foreign language is required.

A minor in geography consists of 16 semester hours, including general education requirements, and not more than four hours in regional courses.

A minor in planning consists of 18 semester hours including Geography 2410, 3430, 3440, and 4800. Seven semester hours must be selected from the following outside the student's major program: Geography 2300; Political Science 1100, 2160; Sociology 4100, 4650; Economics 4550, 4810; Business Administration 4850; and History 4574. In addition, the student must take Mathematics 3810 if not otherwise required in his major program.

The department also provides a concentration of nine semester hours in geography beyond the social science core requirements for majors in social science seeking the Bachelor of Science degree and teacher certification. These nine hours include Geography 2100, 2400, 3010, and 4250. If Geography 3010 is taken in the core, the student must include two semester hours from the sequence numbered 3020-3034 in his concentration.

As one of the collateral areas in social science, the department offers two programs leading to the Master of Arts degree with a major in social

science. For the curriculum for a major in social science with a concentration in geography leading to the Master of Arts degree for secondary school teaching or to the Master of Arts degree for junior college teaching see page 148.

The department offers five programs leading to the Master of Arts degree in geography. All students will take Geography 5000 and 5350 during the first 12 semester hours of work. In addition students must take each of the following: Geography 5010, 5100, and 5200. The five programs are:

1. The liberal arts program which requires 30 semester hours including Geography 5300, Problems in Geographic Techniques: Quantitative Methods; a thesis, and either a reading knowledge of a modern foreign language or a minor in statistics or computer science.
2. A junior college teacher program in geography which requires 30 semester hours including Geography 5300, Problems in Geographic Techniques: Geographic Education; a thesis, five semester hours of geography electives and four semester hours in education.
3. A junior college teacher program in geography which requires 36 semester hours including Geography 5300, Problems in Geographic Techniques: Geographic Education; four semester hours in education, 15 semester hours of approved electives in geography and related areas and no thesis.
4. The secondary school teacher program in geography which requires 30 semester hours including Geography 5300, Problems in Geographic Techniques: Geographic Education; Geography 5500, a thesis, and eight semester hours in education and psychology.
5. The secondary school teacher program in geography which requires 36 semester hours including Geography 5300, Problems in Geographic Techniques: Geographic Education; eight semester hours of education and psychology, 15 hours of approved electives in geography and related areas, and no thesis.

Courses of Instruction in Geography

(For a description of the notation used in the following list of courses, see page 42.)

1010. Introduction to Spatial Science/(3).F;S;SS.

Geography is a spatial science concerned with exploring the interrelatedness of physical and cultural phenomena distributed in earth space. This course is designed to introduce the student to the discipline of geography and to develop competency in the use of basic techniques and tools whereby man's spatial dimension of existence may be analyzed.

1020. Geography of the Emerging World/(2).F;S;SS.

An examination of the interrelationships of those cultural and physical environmental factors which have resulted in the less developed character of certain parts of the earth.

2100. Geographic Perspectives on Human Behavior/(2).S;SS.

An approach to understanding the ways in which people perceive, behave

in and structure their geographical environment. The course emphasizes variations in spatial behavior such as the uses of personal spaces and social territories, choosing locations for social activities, migration, and diffusion of ideas and innovations across geographical space and regional organization. Solutions to contemporary problems are stressed.

2210. Spatial Economics: Manufacturing, Transportation, and Marketing/(3).F.

The spatial analysis of economic systems dealing wtih the location, collection, distribution, and accessibility factors associated with the functional interrelationships between manufacturing, transportation-communications, and markets. Students will be involved in location problem solving and field work.

2300. Cartography and Remote Sensing/(4).F.

These geographic tools are basic to the synthesis of areal information. The student learns the importance of maps and the fundamental techniques of map making. This is integrated with the interpretation of remote sensing data from air photos, and infrared and radar imagery. Two hours lecture; four hours laboratory.

2400. Spatial Environmental Problems/(2).F.

Analysis of man's perception, use, and attempted regulation of his habitat; spatial and policy problems and implications.

2410. Regional and Urban Planning/(3).F.

Introduction to the principles, philosophy, and theories of planning. Emphasis is placed on planning approaches to the solution of contemporary regional, urban, and environmental problems. Students will participate in several field trips.

2500. Independent Study/(1-4).F;S;SS.

3010. Geography of Anglo-America/(2).F.

Analysis of geographical aspects of selected contemporary problems related to natural conditions, land-use, settlement patterns, and regional structure of the United States and Canada.

3020. Geography of Europe and the U.S.S.R./(2).S.

An analysis of contemporary European and Soviet environmental and cultural characteristics and problems. Emphasis is placed on problem formulation and explanation of land-use changes as well as social, economic, and political organization.

The four courses which follow (3031-3034) will focus on the problems faced by those areas of the earth which are just now beginning to emerge as viable members of the world community. Any of the following components or combinations thereof may be taken in a semester. Each component will last approximately four and one-half weeks.

3031. Problems of the Emerging World: Latin America/(1).F;S;SS.

3032. Problems of the Emerging World: Africa South of the Sahara/(1).F;S;SS.

3033. Problems of the Emerging World: Middle East/(1).F;S;SS.

3034. Problems of the Emerging World: Asia/(1).F;S;SS.

3100. Meteorology and Climatology/(3).F.

Introductory concepts of atmospheric processes and their relationships to man are developed. The student is acquainted with instruments used to measure and record atmospheric phenomena. The world pattern and characteristics of climates and man's responses to them are examined. Two hours lecture and two hours laboratory.

3110. Vegetation, Soils, and Landforms/(3).S.

A systematic analysis of the spatial characteristics of vegetation, soils, and landforms especially as they interact in the North American realm. Consideration is given to the processes affecting the ecosystem and their relation to man's activities. Two hours lecture and two hours laboratory.

3400. Recreational Land Use/(2).S.

A study of selected recreational phenomena which emphasize spatial distribution and interaction. Field trips to local and regional recreation sites will be taken.

3430. Planning Techniques I/(3).F.

The first of two sequence courses designed to involve the student in the techniques, tools, and principles necessary to accomplish effective community planning. Two hours lecture and two hours laboratory.

3440. Planning Techniques II/(2).S.

The second of two sequence courses involving the student in the community planning process. The technique courses culminate with the preparation of a simulated planning report. One hour lecture and two hours laboratory.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4200. Urban Geography/(2).S.

Approaches to urban economic, social, and political structures and problems, and related geographic concepts.

4230. Political Geography/(2).F.

Spatial aspects of territoriality, boundaries, voting patterns, government programs, formation of political units, political development and integration, and environmental policy.

4250. Historical Geography/(3).S.

The changing geography of the United States and Canada from pre-Columbian times to about 1920. Attention is concentrated on evolving patterns, especially agricultural; on the nature and origins of populations; and on the expansion of settled areas. Recommended for social studies teachers and students of American history.

4310. Internship of Geography and Planning/(2-4).F;S;SS.

The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required.

4400. Seminar in Geography/(2). F;S;SS.

Study, research, and writing in selected areas. A student may enroll in this course two times for a total of four semester hours provided the course content is non-duplicating.

4800. Quantitative Methods in Geography and Planning/(3).F.

The study of the quantitative methodology relating to the analysis of relationships between man and his physical environment, their spatial consequences, and the resulting regional structures that have emerged on the earth's surface. Prerequisites: MAT 3810 and 3820, or consent of instructor.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.

5010. Regional Seminar/(3). S;SS.

An exploration of special problems, topics, or issues related to the geography of a selected region. The subject matter of this course will vary and, barring duplication of subject matter, a student may repeat the course for credit.

5100. Problems in Physical Geography/(3).S;SS.

An exploration of special problems related to physical geography. The subject matter of this course will vary and, barring duplication of subject matter, a student may repeat the course for credit.

5200. Problems in Cultural Geography/(3).F;S;SS.

An exploration of special problems related to cultural geography. The subject matter of this course will vary and, barring duplication of subject matter, a student may repeat the course for credit.

5300. Problems in Geographic Techniques/(3).F;S;SS.

An exploration of problems related to geographic techniques including air photo interpretation, remote sensing of the environment, field methods, quantitative methods, and cartography. The subject matter of this course will vary and, barring duplication of subject matter, a student may repeat the course for credit.

5310. Internship in Geography/(2-4). F;S;SS.

The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required.

5350. Theory and Method in Geography/(3).F;SS.

The nature and evolution of the discipline of geography. Analysis of major themes in geographic analysis, their postulates, concepts, and theoretical evolution and contribution. The place and future of geography among the physical and social sciences.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(4).F;S;SS.

5530. Selected Topics/(1-3). On demand.

Department of Geology

Fred Webb, Jr., Chairman

Purposes of the Department of Geology are:

1. To provide all students with the opportunity to learn basic scientific principles through the study of geology.
2. To introduce students to the many ways in which geology is interwoven into the fabric of modern civilization.
3. To provide geology majors with the sound background requisite for productive work in their profession and graduate studies.
4. To provide earth science teaching majors with the opportunity to become competent earth science teachers.

A major in geology leading to the Bachelor of Arts degree consists of a *minimum* of 34 semester hours in courses above the 1000 level. Required courses are: Geology 3000, 3001, 3002, 3003, 3005, 4001, 4003, an approved geology summer field course, and at least eight hours of geology electives.

A geology major must complete Mathematics 1110 and an additional six hours of calculus, statistics, or computer science offered through the Department of Mathematical Sciences; Chemistry 1101-1102; and Physics 1101-1102.

A minor in geology consists of Geology 1000-1001, 3000, and at least seven hours of geology electives.

For the Bachelor of Science degree in Science with Earth Science concentration and teacher certification see page 140.

Courses of Instruction in Geology

(For a description of the notation used in the following list of courses, see page 42.)

1000, 1001. Introduction of Geology/(3,3).F;S;SS.

Description of the composition and origin of earth materials; physical and chemical processes that change the earth's crust and surface and modify earth materials; distribution and availability of the earth's mineral resources; and the history of the earth and its inhabitants. Lecture two hours, laboratory two hours.

2000. Environmental Geology/(2).F.

Application of the geological sciences to environmental problems; study of geologic hazards and potentials, using case histories. Prerequisites: GLY 1000 and 1001. Lecture two hours.

2500. Independent Study/(1-4).F;S;SS.

3000. Mineralogy/(3).F.

Fundamentals of crystallography and crystal chemistry as applied to minerals; identification, classification, and description of crystals and minerals by chemical composition. Prerequisites: GLY 1000 and 1001, and General Chemistry, or consent of instructor. Lecture two hours, laboratory three hours.

3001. Introduction to Petrology/(2).S.

Characteristics, classification, and genesis of common rocks; megascopic identification and description of common rocks is emphasized in the laboratory. Prerequisite: GLY 3000. Lecture one hour, laboratory three hours.

3002. Introduction to Stratigraphy and Sedimentology/(2).F.

Properties, classification, and depositional models of sedimentary rocks. Principles of collection and interpretation of stratigraphic data; emphasis on field relationships. Prerequisite: GLY 1001. Lecture one hour, laboratory three hours.

3003. Introduction to Paleontology/(4).S.

Morphology, phylogeny, temporal distribution, and paleoecology of fossils, with emphasis on invertebrates. Prerequisites: GLY 1001 or General Biology. Lecture three hours, laboratory three hours.

3005. Structural Geology/(3).S.

Nature, classification, genesis, and quantification of geologic structures with emphasis on field relationships. Prerequisite: GLY 1001. Lecture three hours, laboratory three hours.

3350. Earth Science Investigations/(3).F.

A course for elementary education majors with a concentration in science. Study of the composition of the earth, the physical processes continuously changing it, and the history of life, with emphasis on man's interaction with the earth. Activities suitable for presenting the material to elementary school students will be stressed. Lecture two hours, laboratory two hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4000. Historical Geology/(3).F.

History of the North American continent; interpretation of stratigraphic and paleontologic data to reconstruct past environments and sedimentary regimes. Prerequisites: GLY 3002 and 3003. Lecture three hours.

4001. Optical Mineralogy/(3).S.

Theory and use of the polarizing microscope; study of the common rock-forming minerals in laboratory. Prerequisite: GLY 3000. Lecture two hours, laboratory three hours.

4002. Ground-water Geology/(2).F.

Distribution, movement, and utilization of underground water. Prerequisites: GLY 1000 and 1001. Lecture two hours.

4003. Economic Geology and Exploration Techniques/(4).S.

Principles, processes, and distribution of major metallic and selected nonmetallic mineral deposits with type illustrations; geochemical and geophysical exploration techniques as applied to mineral exploration stressed in laboratory. Prerequisites: GLY 3000 and 3001. Lecture three hours, laboratory three hours.

4004. Igneous and Metamorphic Petrology/(2).F.

Current theories of genesis of igneous and metamorphic rocks with optical petrographic, X-ray diffraction, and other advanced techniques emphasized in laboratory. Prerequisites: GLY 3001, 3005, and 4001. Lecture one hour, laboratory three hours.

4006. Tectonics/(1).F.

Comparison and analysis of contemporary tectonic theories and history of mountain belts with emphasis on the Appalachian and Cordilleran systems. Prerequisites: GLY 3001, 3005, 4000 (may be taken concomitantly), and 4001. Discussion, two hours.

4600. Introduction to Oceanography/(2).F.

Physical, chemical, biological, and geological oceanography and their interrelationships. Prerequisites — at least two of the following courses: BIO 1101-02, CHE 1101-02, GLY 1001, and PHY 1101-02. Lecture two hours.

4601. Geomorphology/(3).S.

Genesis and recognition of landforms; descriptive and quantitative aspects supplemented by maps, aerial photographs, laboratory, and field study. Prerequisites: GLY 1000, 1001, and GHY 2300 or consent of instructor. Lecture two hours, laboratory three hours.

Department of History

Roy Carroll, Chairman

The aims and values of history are both individual and social. As a basically humanistic study, history seeks to develop in individuals a sensitivity to the meaning, diversity, tragedy, and beauty of mankind's past. As a social study, it offers the perspective of time, provides an awareness of those social forces which contribute to continuity and change, and thus serve to illumine the present.

The Department of History is, therefore, committed to the goal of participating in the intellectual, cultural, and emotional development of all students so that they leave this institution as informed and educated individuals, prepared to play a meaningful role in society. To this end, the department strives to:

1. foster a mature understanding of one's own culture and a sympathetic appreciation of other cultures;

2. provide the perspective of past human experience as a frame of reference for a more meaningful perception of the present;
3. offer a comprehensive historical context for, and bridge between, other disciplines such as literature, political science, sociology, economics, business, philosophy, religion, the fine arts, and the natural sciences;
4. provide a background and preparation for careers in politics, government, law, religion, journalism, publishing, archival work, museums, travel, business, and other fields;
5. prepare students for both teaching and continuing advanced studies in history.

A major in history leading to the Bachelor of Arts degree or to the Bachelor of Science degree and teacher certification consists of at least 33 semester hours in history including six semester hours from History 2201-2212, and History 2599 (three semester hours). Majors should register for History 2599 in their sophomore year or in the first semester after they elect to major in history. Beyond these specific courses, the student must pursue three general areas of study: (1) European history, including England; (2) United States history; (3) Africa, Asia, Latin America. The student is required to take a minimum of 12 semester hours in one of these areas and a minimum of six semester hours in each of the two remaining areas of concentration. Majors must also take Geography 4250, Historical Geography.

History majors seeking a Bachelor of Arts degree are required, and those seeking a Bachelor of Science degree are strongly urged, to acquire proficiency in a foreign language equivalent to courses 1010 through 1050.

A minor in history consists of 18 semester hours above general education requirements, including History 2201-2206 and 2599.

For an interdisciplinary minor in Black Studies see page 57.

For an interdisciplinary minor in Latin American Studies see page 62.

For an interdisciplinary minor in Irenology see page 57.

A major in social science leading to the Bachelor of Science degree and teacher certification must include 17 semester hours in history, including History 1101 and 1102 (six semester hours); six semester hours from 2201-2212; 2215 (two semester hours); and 2599 (three semester hours).

In addition the social science major may complete a concentration of at least an additional nine semester hours in history. For the non-history requirements for the major in social science, see page 140.

Honors courses in history carry full credit toward the major and are open to students who have previously distinguished themselves. To graduate "with honors" in history it is necessary for a student to complete successfully at least one semester colloquium in world civilization or American history, one junior colloquium, a senior honors essay, and an examination.

The Department of History offers Master of Arts degrees in secondary school teaching and junior college teaching as well as a general academic (liberal arts) program. Prior to beginning course work, the student will meet with the departmental Graduate Advisory Committee to design an acceptable program of study. The program may emphasize either European or American history, and the student must complete nine semester hours credit in either History 5106 or 5206, respectively, under the supervision of at least three professors in the chosen field of emphasis. A list of available professors and areas in which they are willing to direct graduate study is provided to the student at the time of his initial meeting with the Graduate Advisory Committee. Any subsequent changes in the program worked out at that time can be made only with the counsel and approval of the committee. Requirements for the three graduate programs are:

1. The liberal arts program, which requires: 24 semester hours of history, including History 5000 (two s.h.), History 5102 or 5202 (two s.h.), History 5106 or 5206 (nine s.h.), and History 5505, thesis (four s.h.); six semester hours of electives in a related field; and a reading knowledge of a foreign language.
2. The junior college teacher program, which requires: 22-24 semester hours of history, including History 5102 or 5202 (two s.h.), History 5106 or 5206 (nine s.h.), History 5000 (two s.h.), History 5450 (two s.h.) and either History 5505, thesis (four s.h.) or, if a thesis is not included, History 5500 (one to three s.h.); four to eight semester hours in a related field; and four semester hours in education.
3. The secondary school teacher program, which requires: 22-24 semester hours of history, including History 5000 (two s.h.), History 5102 or 5202 (two s.h.), History 5106 or 5206 (nine s.h.), History 5450 (two s.h.), and either History 5505, thesis (four s.h.), or if a thesis is not included, History 5500 (one to three s.h.) and four semester hours from related fields: Administration, Supervision and Higher Education 5060, Counselor Education and Research 4560, Administration, Supervision and Higher Education 5350 or 5470, and Psychology 4555 or 5565.

The Department of History also offers a concentration in history as a part of the program leading to the Master of Arts degree with a major in Social Science. For requirements, see page 147.

Courses of Instruction in History

(For a description of the notation used in the following list of courses, see page 39.)

1101. World Civilization/(3).F;S.

An introduction to the development of world civilizations from ancient times to the eighteenth century. Selected topics trace the ancient, medieval, and early modern periods with stress on western ideas and institutions.

1102. World Civilization/(3).F;S.

An introduction to the development of world civilization from the eighteenth century to the present. Emphasis is placed on the revolutionary epoch, the age of industrialization, imperialism, and ideology, and the modern global society.

1510. Freshman Honors Colloquium./(3).S.

A study of selected themes in the history of world civilizations. Participants are selected by the department.

2201, 02, 03, 04, 05, 06. Survey of American Civilization/(1,1,1,1,1,1).F;S.

2207, 08, 09, 10, 11, 12. Themes in American Civilization/(1,1,1,1,1,1).F;S.

A modular-based introduction to the study of American Civilization, offered in chronological as well as topical segments. Students may enroll in one or more modules—chronological, topical, or a combination of both. Six chronological modules (2201-2206) are offered: Colonization and Independence; Forging the Republic; Crisis of the Union; Industrialism, Imperialism, and Reform; Global Conflicts and the Welfare Republic; Contemporary America. Topical modules (2207-2212) examine varying subjects, such as North Carolina and the southern region, American business and labor, the national character and the concept of destiny, rural and urban America, women and the family in American life, and American minorities.

2215. The United States in the Contemporary World/(2).F;S.

A study of contemporary issues confronting the United States, both foreign and domestic, and of their historical antecedents.

2301, 2302. History of Latin America/(3,3).F;S.

A survey of Latin American history; through the wars of independence; from independence to the present.

2401, 2402. History of Asia/(3,3).F;S.

History 2401 is a broad survey of Asian nations, with special emphasis on the cultural and political development of China and Japan; History 2402 continues through the study of Asian revolutionary societies in recent decades, including China and Vietnam.

2421, 2422. History of Africa/(3,3).F;S.

History 2421 surveys African history to 1850, examining such topics as African beginnings, structures of belief, ancient North Africa, the spread of Islam, trans-Saharan trade, the nature of numerous African kingdoms and stateless societies, Bantu and other migrations, the arrival of the Europeans, the slave trade and the anti-slavery crusade, and early nineteenth-century revolutionary developments in several parts of Africa. History 2422, Africa since 1850, examines such topics as African kingdoms in the nineteenth and twentieth centuries, the European partition of Africa and the African response, colonial rule in tropical Africa, the Pan-African movement, the road to independence, independent Africa in the modern world, and the unique problems of southern Africa.

2500. Independent Study/(1-3).F;S.

2510. Sophomore Honors Colloquium./(3).S.

A study of selected themes in United States history. Participants are selected by the department. A history major may substitute 2510 for any three semester hours of the sophomore modules in United States history.

2599. History: Scope and Method/(3).F;S.

Introduction to the nature, meaning and method of history, and to periodical literature, microforms, bibliographies, indexes, and other research tools. Required of all history and social science majors.

3122. Ancient Greece/(3).F.

A survey of ancient Greek society and culture which sums up the brilliant and incredible achievements of the Greek race from the dawn of its civilization to its final dissemination to East and West (2000-323 B.C.) It examines the dynamic, colorful, and infinitely creative forces which shaped the foundations of our Western Civilization. Alternate years with HIS 3124.

3124. Ancient Rome/(3).F.

A study of Roman historical, religious, and cultural practices covering the development and decline of the Republic, and the establishment and autocratic character of the Empire. Alternate years with HIS 3122.

3126. The Middle Ages/(3).F.

An examination of selected topics in the development of medieval civilization including such themes as the shape of feudal society, the age of Gregorian reform, the flowering of the 12th century, the 13th century synthesis, and crisis and transition in the 14th century.

3128. Renaissance and Reformation/(3).S.

This course is devoted to an examination of the strategic juncture between the medieval and modern ages. The meaning of the Renaissance is investigated in terms of humanism and the plastic arts; the emergence of the Lutheran and Calvinist movements are then studied against this background. Emphasis is placed upon slide presentations, listening to music, historical methodology, and the reading of primary sources in translation.

3130. Kings, Philosophers, and Revolutions, Europe 1648-1815/(3).F.

This course will focus on the ideas and institutions of the Enlightenment, absolutism and the emergence of nation-states, the scientific revolution, the eighteenth century revolutions, and the Napoleonic era.

3132. Industry, Ideology, and Empire, Europe 1815-1914/(3).S.

A survey of nineteenth century Europe which examines such themes as romanticism, the revolutions of 1848, socialism and Marxism, national unification movements, European expansion, and major cultural and intellectual developments.

3134. War, Peace, and Social Change, Europe 1914-Present/(3).F.

A study of contemporary Europe which examines the impact of total war upon society, modern totalitarian movements such as Fascism and Nazism, the Cold War, the emergence of a European community, and cultural and intellectual trends, all of which shape a modern perspective.

3222. Colonial and Revolutionary America/(3).F.

An examination of the formation of American values and institutions through the interaction of European traditions and the American environment; social mobility, economic opportunity, and political democracy; the role of religion; Indian relations; slavery; the causes and consequences of the American Revolution; the Articles of Confederation; the Constitution.

3224. Jeffersonian and Jacksonian America/(3).S.

A study of the United States from 1789 to 1845. Topics include the political, social, economic, and ideological divisions of the 1790's; the triumph of the Jeffersonian party; the War of 1812 and the rise of American nationalism; the meaning of Jacksonian democracy; slavery and race relations; Indian removal; religion and reform; urbanization; the westward movement.

3226. Civil War and Reconstruction/(3).F.

A study of the era of national transformation, with emphasis on the sectional conflict and causes of the Civil War, its political and military conduct, its international impact, the abolition of slavery, and the principal political, social and economic aspects of its Reconstruction aftermath.

3228. The Gilded Age and Progressive Era/(3).S.

An analysis of the responses of the American people to the rise of the urban-industrial nation. Problems associated with the growth of the city, capital-labor confrontations, social mobility, black-white relations, reform movements, cultural and intellectual affairs, American imperialism, and representative biography are examined.

3230. Recent United States History/(3).F.

A study of American society, politics, and institutions in the period since 1920.

3234. History of the Appalachian Region/(2).S.

A survey of the history of the Appalachian region from the period of exploration and settlement to the present. Alternate years with HIS 4320.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4122. Tudor-Stuart England/(3).S.

An examination of selected themes and problems beginning with the Wars of the Roses and extending through the Glorious Revolution of 1688. While the focus will be on major personalities—Henry VIII, Mary, Elizabeth I, James I, Charles I, Oliver Cromwell, William and Mary—attention will also be given to the major social and cultural developments to provide an introduction to and background for the literature of the period. Alternate years with HIS 4124.

4124. Modern Britain/(3).S.

A study of nineteenth and twentieth century Britain which emphasizes major political, social, and constitutional developments; problems of Anglo-Irish affairs, the welfare state, liquidation of empire, and class division are particularly studied. Alternate years with HIS 4122.

4220. History of the South/(3).F.

An examination of the development of America's major regional sub-culture; a study of significant trends in the social, intellectual, economic, and political evolution of the region from the seventeenth century to the present. Alternate years with HIS 4224.

4224. History of the American West/(3).F.

A study of the colonial frontiers, the westward movement, the settlement and development of western America. Alternate years with HIS 4220.

4226. History of North Carolina/(3).F.

An examination of major social, economic, and political factors in the development of North Carolina. Consideration is also given to the relationship of the state to the southern region and the nation. The course is based primarily upon student involvement in various problems and research situations.

4320. History of Mexico/(3).S.

A survey of Mexican history from the Spanish conquest to the present. Alternate years with HIS 3234.

4420. Modern China/(3).S.

Traces the course of man's longest and largest continuous government and the development of Chinese culture and nationalism which has culminated in the founding of the People's Republic of China, a nation that constitutes one-fourth of the human race.

4550. Tsarist Russia/(2).F.

A survey of imperial Russia from the 15th Century to 1917. Alternate years with HIS 4552.

4552. Soviet Union since 1917/(2).F.

The Russian Revolution and the Communist state since 1917. Alternate years with HIS 4550.

4560. European Social History/(3).F.

A study of the beliefs, activities, and institutions of people in rural and urban environments of modern Europe. Attention will be given to: population changes and their effects, the family, vocational, and educational life of men and women, and the comparative development of national social policies. Alternate years with HIS 4562.

4562. Men and Ideas in European Thought/(3).S.

Studies in European intellectual history with emphasis on selected individuals and ideas that have continued

to shape and exemplify European thought. Alternate years with HIS 4560.

4570. United States Foreign Policy/(3).F.

Major episodes in the history of United States foreign policy during the twentieth century are explored, with special consideration being given to the ideas, ideals, domestic and international conditions, and personalities that have played important roles in determining relations with the rest of the world.

4572. United States Cultural-Intellectual History/(3).S.

An examination of American thought and civilization studied through ideas, individuals, and movements in religion, literature, social thought, science and technology, art and architecture, higher education, and the American-European cultural interaction.

4574. American Urban History/(2).S.

A study of the process of urbanization in America from colonial times to the present, with attention to the causes and nature of urban expansion, institutional development, class structure and mobility, problems of the city, reform, the image of the city in popular thought, and the impact of urbanization on national life. Alternate years with HIS 4576.

4576. The African-American Experience/(2).S.

Selected topics in African-American history, with an emphasis on developments in the twentieth century. Alternate years with HIS 4574.

Graduate Courses

5000. Bibliography and Research/(2). F;SS.

Instruction in the types of source material available to the advanced researcher in history, methods used in locating and evaluating the sources, and techniques for communicating the results of research. Required in the first semester of all beginning graduate students.

5102. European Historiography/(2).F.

The lives and contributions of the great historians in the West from ancient Greece to the present are studied, with emphasis upon the 19th Century; attention is given to methodology, to primary sources in translation, and to some of the philosophical assumptions which underlie historical writing.

5104. Philosophy of History/(2).S.

Seminar on the major philosophical issues that challenge the historian, including the questions of meaning and value in history; the ideas of progress and causation; and the logic of historical inquiry and proof.

5106. Studies in European History/(2-9).F;S.

Variable content. Barring duplication, a student concentrating in European history may repeat the course and must earn a total of nine semester hours. Emphasis will be indicated on individual study forms or semester schedules.

5202. American Historiography/(2).S.

A study of the writing and interpretation of American history from the seventeenth century to the present, with emphasis on the historical concepts, interpretations, contributions, and careers of the major nineteenth and twentieth century historians.

5204. Interpreting American History/(2).SS.

A course designed to provide students with a broad overview of United States history through a study of conflicting interpretations of the great issues.

5206. Studies in American History/(2-9).F;S.

Variable content. Barring duplication, a student concentrating in American history may repeat the course and must earn a total of nine semester hours. Emphasis will be indicated on individual study forms or semester schedules.

5406. Studies in Asian History/(3).F.

Investigation of selected topics in the history of Asia—primarily China—in the twentieth century through reading,

analysis, reflection, and seminar discussions.

5450. History and Social Studies Education/(2).S;SS.

A flexible program of reading, study, planning, and writing designed to meet the needs of individual teachers or groups of teachers in the fields of secondary school and/or junior college history and social studies. Special attention is given to recent developments in teaching strategies and classroom techniques, and to the availability of new materials. The structure of the history and social studies disciplines are examined in relation to each other and to other academic disciplines.

5500. Independent Study/(1-3).F;S.

5502. Seminar/(2-3).F;S.

A specialized course involving advanced study, research, and writing by small groups in selected areas. Barring duplication, a student may enroll twice in HIS 5502 for a credit totaling four semester hours.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Department of Mathematical Sciences

L. M. Perry, Chairman

Through its faculty and curriculum the Department of Mathematical Sciences provides undergraduate and graduate programs of study which are designed to complement other areas of study in the university and to prepare students for careers in business, industry, and goverment, as well as in teaching at the elementary, secondary, and junior college levels.

A major leading to the Bachelor of Arts in Mathematics consists of 34 semester hours in the Department of Mathematical Sciences (at least five hours from the 4000 level), indluding the core of 1110, 1120, 2130, and 2240, plus completion of one of the following options:

Statistics option—4810, 4830, 4850, and 4860, plus eight hours of electives from 2400, 2440, 3110, 3210, 3310, 4310.

Computer Science option—2400, 2440, 3110, 3450, 4310, 4460, plus any three hours from mathematical sciences numbered 2000 or above.

Mathematics option—3110, 3210, plus 14 hours of electives in Mathematical Sciences numbered 2000 or above (at least five hours from 4000 level).

A major in mathematics leading to the Bachelor of Science degree and teacher certification consists of 34 semester hours in the Department of Mathematical Sciences (at least five hours from 4000 level), including 1110, 1120, 2130, 2240, 2400, 3110, 3210, 3610, either 3810 or 4850, plus seven hours of electives in Mathematical Sciences numbered 2000 or above. Physics 1150, 1151 are also required.

Three minors are offered within the Department of Mathematical Sciences. A minor in computer science consists of 12 hours in computer science, a statistics minor consists of 12 hours in statistics, and a minor in mathe-

matical sciences consists of 1110 or 1030 plus eight hours of electives in mathematical sciences which may include 1120 or any course numbered 2000 or above.

A student beginning a graduate program of study leading to a master's degree in mathematics must have the equivalent of an undergraduate major in mathematics. The Department of Mathematical Sciences offers graduate programs in secondary school teaching and junior college teaching as well as a general academic graduate degree program. For each program the appropriate committee in the department determines an acceptable program for each student which will include requirements as follow.

For the Master of Arts degree program in secondary school teaching:

I. (a) (Without thesis) 24 hours of acceptable* course work in mathematics, at least 12 of which must be at the 5000 level. (b) (With thesis) Including the thesis, 22 hours of mathematics course work at the graduate level, at least 12 of which must be at the 5000 level.

II. Prior to beginning course work, the candidate will meet with the Graduate Advisory Committee to design his program of study. Any subsequent changes in his program are made with the counsel and approval of this committee.

III. The candidate must have completed an acceptable* teaching apprenticeship prior to receiving the degree.

For the Master of Arts degree program in junior college teaching:

I. (a) (Without thesis) 36 semester hours of graduate course work including: Administration, Supervision and Higher Education 5420, 5440 and 32 additional semester hours of acceptable* course work, at least 16 semester hours of which must be numbered 5000 or above. (b) (With thesis) 30 semester hours of graduate course work including: Administration, Supervision and Higher Education 5420 and 5440 and 26 additional hours of acceptable* course work at least 16 hours of which must be numbered 5000 or above.

II. Prior to beginning course work, the candidate will meet with the Graduate Advisory Committee to design his program of study. Any subsequent changes in his program are made with the counsel and approval of this committee.

III. The candidate must have completed an acceptable* teaching apprenticeship prior to receiving the degree.

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* Determined by the Graduate Advisory Committee. For additional descriptions of each of these programs, see the Graduate School section of this catalog.

For the general Master of Arts program in mathematics:

I. A thesis is required (Mathematics 5505—four hours).

II. In addition to the thesis, 26 hours of acceptable* course work, at least 16 of which must be at the 5000 level.

III. Prior to beginning course work, the candidate will meet with the Graduate Advisory Committee to design his program of study. Any subsequent changes in this program are made with the counsel and approval of this committee.

IV. The candidate must have completed an acceptable* teaching apprenticeship prior to receiving the degree.

Courses of Instruction in Mathematics, Computer Science, and Statistics

(For a description of the notation used in the following list of courses, see page 42.)

Mathematics

1010. Introduction to Mathematics/(4). F;S;SS.

The primary purpose is the development of mathematical literacy to a minimum level adequate for the functioning of the average citizen of modern society. It is designed to develop appreciation for mathematical concepts and thought from several different viewpoints. Topics covered will include elementary set theory and elementary logic. The opportunity is offered for the student to select certain topics to strengthen his own mathemamatical weaknesses. Not open to students who have credit for MAT 1110.

1020. Algebra and Trigonometry/(4). F;S;SS.

An integrated study of algebra and trigonometry including such topics as the real and complex number systems, algebraic relations and functions, trigonometric functions, and elementary theory of equations. (For the student who wishes to strengthen his background in the computational aspects of the mathematics he began in high school.) Not open to students who have credit for MAT 1110.

1030. Calculus With Business Applications/(4).F;S;SS.

An introduction to the concepts of differentiation and integration with particular emphasis upon their applications to solving problems that arise in business and economics. This course is designed primarily for business and economics majors and is not open to mathematics majors.

1110. Calculus With Analytic Geometry I/(4).F;S;SS.

A study of limits, continuity, differentitation, applications of the derivative, the differential, and antiderivatives.

1120. Calculus With Analytic Geometry II/(4).F;S;SS.

A study of the definite integral, area, volume, arc length, logarithmic and exponential functions, hyperbolic functions, and methods of integration. Prerequisite: MAT 1110.

1910. Mathematics for Elementary School Teachers/(2).F;S;SS.

A course designed for the future elementary school teacher. Among other topics this course will include a development of the real number system, Euclidean geometry, number theory,

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* Determined by the Graduate Advisory Committee. For additional descriptions of each of these programs, see the Graduate School section of this catalog.

mathematical systems, probability, and problem solving. Prerequisite: MAT 1010.

2130. Calculus With Analytic Geometry III/(3).F;S.

A study of polar coordinates, the conic sections, indeterminate forms, improper integrals, Taylor's formula, infinite series, partial derivatives and multiple integration. Prerequisite: MAT 1120.

2240. Introduction to Linear Algebra/(3).F;S.

A study of vectors, matrices and linear transformations, principally in two and three dimensions, including treatments of systems of linear equations and determinants.

2500. Independent Study/(1-3).F;S;SS.

3010. History of Mathematics/(2).F.

A study of the development of mathematical thought, mathematics and culture, and the persons who have made significant contributions to these.

3110. Introduction to Modern Algebra/(3).F;S;SS.

Topics covered include sets, functions, equivalence relations, groups, rings, integral domains, fields and homomorphisms of these structures. Prerequisite: MAT 2240 or permission of the instructor.

3130. Introduction to Differential Equations/(3).F.

A study of methods of solution of differential equations including classical methods for ordinary differential equations, matrix methods, series, and Laplace transform techniques. Partial differential equations and Fourier series are briefly introduced. Prerequisite: MAT 2130, with MAT 2240 recommended.

3210. Intermediate Analysis/(3).F;S;SS.

A treatment of the calculus of real valued functions of real variables which is designed for the junior level student who will likely be teaching elementary calculus. Prerequisite: MAT 3110.

3250. A Study of the Integers/(2).S.

A study of the integers beginning with the Peano postulates and including the Fundamental Theorem of Arithmetic, Diophantine equations, congruences, Fermat's and Wilson's theorems, perfect numbers, Euler's theorem, Fermat's conjecture and the Goldbach conjecture. Emphasis will be on the historical as well as the theoretical development of the subject. Prerequisite: MAT 3110 or permission of the instructor.

3310. Applications of Mathematics/(2).S.

A survey of problems in the physical, engineering, biological and management sciences in which undergraduate level mathematics is utilized in the formulation and solution. The course offers an opportunity for the student to bring all of his mathematical background to bear on some specific real-world problems.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3610. Introduction to Geometry/(3). F;S;SS.

A study of the development of Euclidean geometry including both the synthetic and the metric approach. Topics to be considered include parallelism and similarity, measurements, ruler and compass constructions, and consideration of at least one non-Euclidean geometry. Prerequisite: MAT 1120.

3910-3920. Mathematics for Elementary Teachers/(5-5).F;S.

A study of the area of mathematics related to the modern elementary school curriculum. To be included are topics from abstract algebra, geometry,

number theory, mathematical logic, trigonometry and an intuitive approach to calculus. Not open to mathematics majors. Prerequisite: MAT 1910.

4010. Undergradaute Seminar/(1-3). On demand.

(Permission to register must be given by the department chairman.)

4110. Introduction to Real Variables I/(3).F.

A rigorous treatment of the concepts of sequences, limits, continuity, and uniform continuity. Prerequisite: MAT 3110.

4210. Abstract Algebra/(3).F.

A study of group theory including quotient groups, the fundamental theorem of finite Abelian groups, and the Sylow theorems. Includes an introduction to rings with emphasis on Euclidean rings and other principal ideal domains. Prerequisite: MAT 3110 or permission of the instructor.

4310. Introduction to Numerical Methods/(2).F;S.

The development and application of numerical methods for the solution of transcendental equations, systems of linear equations, differential equations, integrations, and related problems utilizing the computer. Prerequisite: MAT 2130 and programming experience.

4610. Foundations of Geometry/(2). S;SS.

A treatment of projective geometry including both the synthetic and the analytic approach. Also to be considered is a study of the relation to Euclidean, affine and hyperbolic geometrics to projective geometry. Prerequisites:MAT 2240 and 3610.

4710. Introduction to Topology/(3).F.

A study of the basic concepts of general topological space including such topics as compactness, connectedness, product spaces, metric spaces, and continuous functions. Prerequisite: MAT 3110.

4910. Geometry for Elementary School Teachers/(3).F;S;SS.

An informal treatment of aspects of geometry which are relevant to the elementary school curriculum. The topics considered include congruence, measure of segments and angles constructions, parallels and parallelograms, similarity, space geometry, areas and volumes, and measurements related to circles. Not open to mathematics majors.

4930. Foundations of Arithmetic/(3). F;S;SS;Ex.

A study of the properties of integers, rational numbers, and real numbers through a postulational treatment. Included is a study of logic, probability, and elementary statistics. Not open to mathematics majors.

Graduate Courses

5120. Introduction to Real Variables II/(3).S.

A rigorous development of the Riemann (or the Riemann-Stieltjes) integral, infinite series, sequences and series of functions, and uniform convergence. Prerequisite: MAT 4110.

5140. Real Variables/(3). On demand.

A study of Lebesque measure, the Lebesque integral, and an introduction to Banach spaces. Prerequisites: 5120 or permission of the instructor.

5160. Complex Variables/(3). On demand.

An introduction to the study of complex variables to include such topics as line integrals, the Cauchy theorem, the Cauchy integral formula, Morera's theorem, and the Laurent series.

5220. Abstract Algebra/(3).S.

Continuation of Mathematics 4210. The remainder of the course is on linear algebra including the connection between matrices and linear maps, canonical forms, and eigenvalues. Prerequisite: MAT 4210.

5240. Field Theory/(3). On demand.

A study of field theory including an introduction to Galois theory. Several of the classical theorems on solvability

of equations by radicals and constructibility will be covered. Prerequisite: MAT 5220.

5310-5320. Numerical Analysis with Computer Applications/(3,3).F;S.

A study of numerical methods of solution for algebraic, differential and integral equations, and methods of integration with emphasis on the analysis of convergence properties and errors. Problems are solved by computer. The course is directed toward the student who will be teaching computer-oriented courses as well as those who may be working in industry. Prerequisites: Linear Algebra, Real Analysis Computer programming.

5500. Independent Study/(1-3).F;S;SS.

Prerequisite: 12 hours of graduate mathematics.

5505. Master of Arts Thesis/(1-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

5720. Topology/(3).S.

A study of topology to include such topics as general product spaces, complete metric spaces, compactifications, embedding, metrization theorems, and quotient spaces. Prerequisite: MAT 4710.

5910. Investigations in the Teaching of Mathematics/(2).F;SS.

An examination of recent research and experimental programs in the teaching of secondary school mathematics. Students are encouraged to write experimental designs for potential research problems. Prerequisite: Undergraduate mathematics major or permission of the instructor.

5920-5921. Linear Algebra for Teachers/(2-2).SS.

A study of elementary concepts of linear algebra extending to a rigorous level of algebraic proof. Prerequisite: Undergraduate major in mathematics.

5930-5931. Analysis for Teachers/(2-2).SS.

A rigorous study of elementary calculus extending to a treatment of fundamental concepts of analysis involving functions of a real variable. Prerequisite: Undergraduate major in mathematics.

5933. Topics in Algebra and Analysis for Teachers/(2).SS.

An extension of 5921 and 5931 with a treatment which investigates the unifying concepts of algebra and analysis.

5940. Computer Applications in the High School/(2).SS.

An examination of ideas fundamental to computers and data processing together with programming experience. Effects of the computer on the high school curriculum and as a teaching aid will be discussed. Use of a computer will be included.

5960. Mathematical Applications in the High School Disciplines/(2).SS.

An examination of mathematical theories with respect to their applications to other high school disciplines such as biology, chemistry and physics. Prerequisite: Undergraduate major in mathematics.

5980. Special Topics in Mathematics Education/(1-3).F;S;SS.

A flexible program of reading, study, planning, and writing designed to meet the needs of individual teachers or groups of teachers in the field of secondary school mathematics. Prerequisite: Undergraduate major in mathematics and recommendation of graduate advisor.

Computer Science

2400. FORTRAN Programming/(1). F;S;SS.

A first course in FORTRAN programming intended for any student having a need for computer assistance. The course utilizes flowcharts and FORTRAN IV language for a set of programs introducing commonly encountered applications.

2430. COBOL Programming/(2).F;S;SS.

A first course in COBOL programming with primary objective a basic competence in writing and running programs in standard COBOL for a variety of applications.

2440. Algorithms and Programming/(4).F.

A course in various programming concepts, including compiler characteristics and operating systems as needed, but with emphasis on algorithms using flowcharts. Original algorithms are developed, programmed, and documented. Use is made of subroutines, disc files, arrays, and the various programming paraphernalia during the course. Prerequisite: CS 2400.

3450. Assembly Language and Machine Operation/(4).S.

This course includes data representation in the computer, computer logic, and a brief look at circuits, hexadecimal and binary numerals and arithmetic with emphasis on the study and practice of assembly language programming. Prerequisite: CS 2440.

3460. Data Structures/(3).F;S.

Such problems as scheduling, traffic flow, retrieval of information from large data sets, and other problems in specific information storage are studied. The theoretical structures underlying these problems and algorithms to handle them are considered. Prerequisite: CS 2440.

3470. Current Computer Use/(1-6). On demand.

Work experience which may contribute significantly to the student's background in the computing field, such as working as a programmer for a faculty member engaged in research or working in a computer installation for a period of time. The responsibility for arranging such work rests with the student with final approval given by the department chairman.

3500. Independent Study in Computer Science/(1-3). On demand.

This course is intended to help the student advance himself through study under the direction of a faculty member, in the area(s) of his special interest in computer science. It may be taken only after a minor in computer science is completed.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

Statistics

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3810. Statistical Methods I/(3).F;S;SS.

A study of statistical methodology including organization and presentation of data, probability, statistical distributions, confidence intervals and hypothesis testing. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: MAT 1020 or the equivalent.

3820. Statistical Methods II/(3).F;S;SS.

A continuation of Statistics 3810. Topics covered will include regression, analysis of variance, analysis of covariance and experimental design. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: STAT 3810.

4810. Non-Parametric Methods/(2).S.

A study of non-parametric methods in hypothesis testing. Emphasis will be on applications rather than theoretical development. Prerequisite: STAT 3810.

4830. Linear Statistical Models/(4). On demand.

A study of regression analysis, analysis of variance, analysis of covariance, and associated tests of

hypothesis via least squares theory. Canned computer programs will be utilized and interpreted in applications of the above topics. Prerequisites: MAT 2240 and STAT 3820.

4850-4860. Probability and Mathematical Statistics/(3-3).F;S;SS.

A study of sample spaces, probability, random variables and their properties, and the fundamental limit theorems. The second semester to include a study of sampling theory, point estimation, confidence intervals and testing hypothesis. Prerequisite: MAT 2130.

5810. Advanced Experimental Design/(3). On demand.

Analysis and application of factorial designs to include hierarchical or nested designs, orthogonal contrasts, and variance components. Prerequisite: STAT 3820.

Department of Philosophy and Religion

Richard A. Humphrey, Chairman

The objectives of the Philosophy and Religion Department are to acquaint students with the religious and philosophical history of mankind, giving special attention to those aspects of tradition having most to do with the shaping of the Western mind; to promote critical examination of philosophical and religious issues; and to promote a desire for advancing the skills and frontiers of knowledge in philosophy and religion and, thus, in every area of human endeavor where truth and the well being of persons are the goals.

In keeping with these objectives an interdisciplinary major and minor in philosophy and religion are offered. Within the framework of these programs one may choose to elect an emphasis in philosophy or religion. For participants in the graduate program a limited amount of graduate work is available, including a nine hour graduate minor. The minor program is designed for students on an individual basis. For further information contact the department chairman.

A major in philosophy/religion leading to the Bachelor of Arts degree consists of 32 semester hours. Each student must participate in the following core: one philosophical problem course, one history of philosophy course, one course in Christian history, one course in Eastern Religions, two seminars (one a colloquium). Each student must elect the rest of his hours from within the departmental offerings.

A minor in philosophy-religion consists of 18 semester hours, including the departmental colloquium.

A student majoring in the department must obtain credit for one course in literature outside the department. If a student has satisfied the general education requirement of two courses in literature by taking one or more of those courses in religion counting towards this requirement, he will be allowed to count them toward his major, but he must obtain additional credit in literature equal to that counted towards the major.

To earn the Bachelor of Arts degree the student must complete six semester hours of a second year of a foreign language or higher. The department recommends that a major who anticipates graduate studies elect a second foreign language in addition to the one required (German and French are preferred).

Courses of Instruction in Philosophy and Religion

(For a description of the notation used in the following list of courses, see page 42.)

Philosophy

1000. Introduction to Philosophy(3). F;S;SS.

A general introduction to the basic patterns and methods of philosophy as presented through representative thinkers.

1100. Logic/(3).F;S;SS.

A course in general logic: intended to provide a broad understanding of the nature, use, and limits of logical analysis.

2000. Ethics/(3).F;SS.

A critical and historical examination of ethical systems and the meaning of moral ideas.

2200. Aesthetics/(3).S.

A study of the nature and value of beauty, uniqueness, and creativity in art, nature and human affairs.

2500. Independent Study/(1-4).F;S;SS.

2900. Discussions of Philosophical Issues/(3).F;S.

An intensive study of selected problems in the history of philosophy. Course may be repeated for credit barring duplication of subject matter.

3000. Ancient Philosophy/(3).F.

An introduction to philosophy through the study of the pre-Socratic Philosophers and of Plato and Aristotle. Prerequisite: one course in philosophy or consent of the instructor.

3200. Modern Philosophy/(3).S.

A study of views of eminent philosophers of the seventeenth and eighteenth centuries, including Descartes, Hume, and Kant. Prerequisite: one course in philosophy or consent of the instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3600. Philosophy of Science/(3).F.

An investigation of the foundations, structure, actual attainments, and ideals of the sciences. Prerequisite: one course in science or science education or philosophy or consent of instructor. Alternate years, offered 1975-76.

4000. Nature of Knowledge/(3).S.

A study of the traditional problems of the origin, nature, and limitations of knowledge. What do we know and how do we know it? Prerequisite: one course in philosophy or consent of the instructor. Alternate years, offered 1975-76.

4100. Phenomenology and Existentialism/(3).S.

An examination of Phenomenological and Existentialist traditions in philosophy beginning with the work of Husserl and Kierkegaard and including such major figures as Heideggar, Sartre, Merleau-Ponty and others as time permits. Prerequisite: one course in the history of philosophy sequence

or consent of instructor. Alternate years, offered 1976-77.

4200. The Analytic Tradition/(3).F.

A study of the post-Kantian contexts and major contributors to the analytic tradition in philosophy. Prerequisite: one course in philosophy or consent of instructor. Alternate years, offered 1976-77.

4549. Seminar/(3).F;S.

An intensive study of one philosopher, philosophical movement, problem, or major idea. The subject of this course will vary and barring duplication of subject matter a student may repeat the course for credit. Prerequisite: one course in philosophy or consent of instructor.

Religion

1000. Religion and the Life of Man/(3). F;S;SS.

An analysis of the meaning of religious phenomena with special emphasis on the varied roles they play in shaping individual and corporate life styles.

1100. Judaism, Christianity, and Islam/(3).F;S;SS.

An introduction to religion through the study of the three major sister religions of the Near East. Study and comparison of these in regard to legal, prophetic, eschatalogical, and mystic religious experiences will be emphasized. Primary sources of sacred texts will be used extensively.

1200. Religions of India and China/(3). F;S;SS.

An introduction to religion through the study of Hinduism, Buddhism, Taoism, and Confucianism.

2000. Old Testament Literature/(3). F;S;SS.

An analysis of the Old Testament Literature as the product of the life of the Hebrew people. Selected Old Testament documents will be studied in terms of their literary structure, historical context and religious perspective. Prerequisite: one course in religion or consent of the instructor.

2100. New Testament Literature/(3). F;S;SS.

An analysis of New Testament Literature as the product of the life of the early Christian Church. Selected New Testament documents will be studied in terms of their literary structure, audience, historial context, religious perspective, and their relation to the broader Christian community and Western Culture. Prerequisite: one course in religion or consent of the instructor.

2500. Independent Study/(1-4).F;S;SS.

2800. Selected Topics in Religion and Culture/(3).F;S.

A course for the purpose of exploring the impact of selected religious traditions upon the cultures within which they are manifested. Course may be repeated for credit barring duplication of content. Prerequisite: one course of religion or consent of the instructor.

3000. God, Man and Nature in Judaeo-Christian Literature/(3).S.

A study of the basic patterns of man's encounter with the sacred appearing in Jewish-Christian literature. The relation of man to God, of God to the world, of man to the world will be studied in depth as one considers representative texts drawn predominately from the literature of the Old Testament, the Apocrypha, and the New Testament. Prerequisite: one course in religion or consent of the instructor.

3100. Philosophy and Religion through the Middle Ages/(3).F.

An examination of Christian religious and philosophical movements from the second century to the Reformation. Prerequisite: one course in religion or consent of the instructor.

3200. Reformation and Modern Christianity/(3).S.

A study of the Roman Catholic and Protestant traditions since the Protestant Reformation, focusing on the challenge of reason to faith and dogma. Prerequisite: one course in religion or consent of the instructor.

3400. Religion in America/(3).S.
An examination of the development of religious thought and practice in the United States. Prerequisite: one course in religion or consent of the instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4100. Religion and the Future of Man/(3).F.
A course whose purpose is to focus upon the bearing of religion upon decision making as it relates to the nature of the future and as it takes place within the context of the advent of knowledge and technology explosions which confront man with unparalleled options and demands upon his ethical and religious wisdom. Prerequisite: one course in religion or consent of instructor.

4549. Seminar/(3).F;S.
An intensive study of special problems, topics, or issues related to the study of religion. The subject matter of this course will vary and barring duplication of subject matter a student may repeat the course for credit. Prerequisite: one course in religion or consent of instructor.

Department of Physics

Robert C. Nicklin, Chairman

The objectives of the Department of Physics are to give an appreciation of the beauty and symmetry of the laws of nature; to develop in all students a curiosity and questioning attitude toward their physical environment; to train students to teach science at all levels; to promote advanced study for development as professional scientists.

In keeping with these objectives two undergraduate major programs are offered. Minor programs are offered for both the undergraduate and the graduate student.

A major in physics leading to the Bachelor of Arts degree consists of a minimum of 36 hours in physics including 1101, 1102 or 1150, 1151, and 2010, 2020, 3010, 3020, 3210, 4210 and ten hours of physics electives. A physics major must take two semesters of chemistry and Mathematics 1110, 1120, 2130, and 3130.

An undergraduate minor in physics consists of Physics 1101, 1102, or 1150, 1151 and any eight hours of electives in physics.

A major in physics leading to the Bachelor of Science degree and teacher certification consists of a minimum of 32 hours in physics including 1101, 1102, or 1150, 1151, 2010, 2020, 3210, 4210, and twelve to fourteen hours of physics electives. Physics 2150 and 4630 are recommended for this program. A physics major in this program must take two semesters of

biology, two semesters of chemistry, and Mathematics 1110, 1120, 2130 and 3130.

A graduate (M.A.) minor in physics consists of six hours selected from physics offerings numbered 4500 and above.

For the curriculum for a major in science and concentration in physics leading to the Bachelor of Science degree and teaching certification, see page 140.

Courses of Instruction in Physics

(For a description of the notation used in the following list of courses, see page 42.)

1101. Concepts of Physics/(3).F;S;SS.

An introduction to the principles of physics applied to mechanics, heat, sound, light, electricity, magnetism, and quantum physics suitable for general college students. The concept of energy is the pervading theme that relates these topics. Prerequisite: MAT 1020 or equivalent. Lecture two hours, laboratory two hours.

1102. General Physics/(5).F;S;SS.

A sequel to Physics 1101 in which the ideas of mechanics, heat, sound, light, electricity, magnetism, and modern physics are studied in greater detail and are applied giving the students further insight into the basic laws of nature. Prerequisite: PHY 1101. Lecture four hours, laboratory three hours.

1105. Physics of Sound/(3).F.

A course designed primarily for music majors and for those interested in the science of wave phenomena. A study of audible sound, standing waves, resonance, auditory perception, instrument and room acoustics. Prerequisite: PHY 1101. Lecture two hours, laboratory two hours.

1106. Physics of Light and Color/(3).S.

An introductory course intended primarily for art majors and others interested in optical phenomena. Among the topics covered are the perception of light and color, color mixing, polarized light, photography, lasers, and holography. Prerequisite: PHY 1101. Lecture two hours, laboratory two hours.

1150-1151. Analytical Physics/(5-5). F-S.

An analytical and quantitative approach to classical and modern physics employing calculus. Especially designed for students majoring in chemistry, mathematics, physics, and pre-engineering. Co-requisite: MAT 1110. Lecture four hours, laboratory three hours.

2010, 2020. Intermediate Physics I, II/(4,4).F,S.

A study of basic formulations and concepts in classical physics, especially mechanics, static and dynamic electricity and magnetism. Calculus, vector methods and computer techniques are used in the solution of both theoretical and experimental problems. Intended primarily for students majoring or minoring in physics. Prerequisite: PHY 1102 or 1151 and MAT 1120. Lecture three hours, laboratory three hours.

2150, 2160. Astronomy I, II/(3,3).F,S.

A descriptive study of the universe. The fall semester will deal with our solar system and a study of astronomical instruments and their use. Sightings of the moon and planets will be made from the departmental observatory. The spring semester will emphasize phenomena beyond the solar system. Topics will include pulsating

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* Offered in odd numbered years.
** Offered in even numbered years.

and explosive stars, nebulae, quasars, black holes, galactic dynamics and systems, cosmological models and physical evidence for extraterrestrial life. Laboratory work will include night observations with reflecting and refracting telescopes, experiments on properties of light, optical instruments, and analysis of celestial data. Lecture two hours, laboratory two hours.

2500. **Independent Study/(1-4).F;S;SS.**

3010, 3020. **Classical Physics I, II/(3,3).F,S.**

A continuation of Physics 2010, 2020 into the formal methods of classical physics with special attention to concepts in dynamics and electromagnetic theory. PHY 2010 is prerequisite to 3010 and PHY 2020 is prerequisite to 3020. Lecture three hours.

3210.** **Modern Physics/(3).F.**

A study of the theories and experiments which have led to current models in special relativity, atomic structure, lasers, solid state physics, X-rays, nuclear structure, artificial and natural radioactivity, nuclear fusion and fission and particle accelerators. Prerequisite: PHY 1102 or 1151. Lecture three hours.

3220.* **Waves and Oscillations/(3).F.**

An integrated course treating the many important systems in physics described by oscillatory or wavelike motions. Some topics covered are: free and forced vibrations of coupled systems, electromagnetic waves, interference and diffraction. Co-requisite: PHY 2010. Lecture two hours, laboratory three hours.

3230.** **Thermal Physics/(3).S.**

A study of the laws of thermodynamics and their application to physical, chemical and biological phenomena. An introduction to kinetic theory and statistical mechanics is included. Prerequisites: PHY 1102 or 1151, and MAT 2130. Lecture three hours.

3350. **Physical Science Investigations/(3),F.**

A course designed primarily for elementary education majors who choose their academic concentration in science. Simple demonstrations and laboratory experiments will emphasize a conceptual approach to the physical "ideas" usually introduced in the elementary science curriculum, and will utilize low cost materials. Lecture two hours, laboratory two hours.

3380.** **Nuclear Radiation Detection/(2).S.**

A study of the production, characteristics, and detection of radiations and applications of various types of nuclear detectors such as Geiger-Muller, scintillation, gas flow, photographic film, bubble chamber, etc. Theory and experiment with different counters, probability of error in counting. Prerequisite: PHY 1102 or 1151. Laboratory four hours.

3500. **Independent Study/(1-4).F;S;SS.**

3520. **Instructional Assistance/(1). F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. **Selected Topics/(1-3). On demand.**

4210. **Experimental Physics Seminar/(2).F;S.**

An advanced laboratory course in classical and modern physics. Results of experimental investigations will be presented to colleagues and to the faculty. Literature searches and some oral reports will be required. May be repeated. Lecture one hour, laboratory three hours. Prerequisite: Advanced standing in physics.

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* Indicates courses offered in odd numbered years.
** Indicates courses offered in even numbered years.
** Offered in even numbered years.

4630. Electronics/(3).S.

A study of the basic components, circuits and systems encountered in modern electronic instrumentation. Special emphasis is given to the transistor, field effect transistor (FET), silicon controlled rectifier (SCR), and to linear and digital integrated circuits (TTL). Circuits and instruments for making quantitative measurements of properties of physical and biological systems will be used. Prerequisites: PHY 1102 or 1151. Lecture two hours, laboratory three hours.

4640-4650*. Advaned Modern Physics I-II/(3-3).S.**

A study of quantum mechanics and its applications to statistical, solid state and nuclear physics. The major experimental and theoretical results that led to the development of the quantum theory are discussed in detail. Corequisites: PHY 3010, 3020, 3210, or 3220 and MAT 3130.

4770. Physics for Teachers/(3).SS.

A study of the fundamental laws of physics with emphasis on demonstrations and methods. Designed for those currently teaching science and for those planning to teach science. Lecture three hours.

4880. Special Topics in Physics/(3). On demand.

A course devoted to single topics such as: relativity, ultrasonics, thermodynamics, research techniques, optics, energy, etc. May be repeated. Prerequisite: Consent of instructor.

5160. Astronomy/(3).SS.

A study of the solar system, measuring and detecting instruments, and phenomena beyond our solar system. Stellar evolution, nebulae, quasars, black holes, comets, and physical evidence for extraterrestrial life are appropriate topics. Use of reflecting and refracting telescopes during night observations will be included. Lecture three hours.

5500. Independent Study/(1-4).F;S;SS.

Department of Political Science

Richter H. Moore, Jr., Chairman

The purposes of the Department of Political Science are to enable students critically to observe, analyze, and understand the complex political world in which they live; further, its purpose is to encourage students to become knowledgeable and active citizens who play a role in the political processes of the nation and the world.

A major in political science leading to the Bachelor of Arts degree consists of 33 hours including Political Science 1100, 2100, 2110, and at least one course in four of the following areas: (1) Theory and Methodology; (2) International Relations; (3) American Politics and Government; (4) Comparative Government; (5) Public Law and Judicial Behavior; (6) Public Administration; (7) Political Behavior. The area in which any particular course may be credited is indicated by the third digit of the course number. For example, Political Science 3660 is credited to area (6) Public Administration. The remaining 12 hours are elective. To earn the Bachelor of Arts degree a student must complete six hours of the second year of a foreign language.

A minor in political science consists of 18 hours including Political Science 1100 or 2100. The remaining 15 hours are elective but the courses must

come from at least three of the areas of political science, as outlined above, and nine of the 15 elective hours must be taken at the 3000-4000 level.

The department also provides a concentration in political science for those majors in social science seeking a Bachelor of Science degree and teacher certification. See page 140.

The Department of Political Science requires as a prerequisite for graduate work an undergraduate major or minor in political science. The academic Master of Arts degree requires a minimum of 30 semester hours of graduate credit, including Political Science 5508 and four hours for the thesis which is required. In addition to the course work mentioned above, each candidate will demonstrate proficiency in reading a foreign language or using computer science and statistics as a research tool. In addition to the academic Master of Arts degree, a student may earn a Master of Arts degree with a major in Political Science in the program for secondary school teachers or in the program for junior college teachers. See page 147.

The department also provides a concentration in Political Science for those majors in social science seeking a Master of Arts degree. See page 147.

Courses of Instruction in Political Science

(For a description of the notation used in the following list of courses, see page 42.)

1100. American National Government and Politics/(3).F;S;SS.

A study of the development and operation of the American National government, its powers, organization and policies.

2100. Introduction to Political Science/(3).F;S;SS.

A study of Political Science as a discipline; the course is divided into two parts. The first part familiarizes the student with the scope and content of politics and introduces the main approaches used to study political phenomena. The second part applies the general knowledge acquired in the first part to the study of a selected number of actual political systems.

2110. Political Analysis/(3).F;S.

The techniques used by researchers in studying political phenomena; the logic of research and basic methods of hypothesis testing in political science are examined.

2130. State and Local Government/(3).F;S;SS.

An examination of the organization, problems and powers of state and local governments in the United States, focusing upon the responses of states, counties, and municipalities to needs caused by poverty, growth, and social change.

2160. Introduction to Public Administration/(3).F;S.

A general survey course aimed at introducing the student to the theory and practice of public administration. The course includes an introduction to organization, theory, personnel and financial administration and administrative responsibility. The principal focus is on American public administration, but some comparisons and illustrations from other administrative systems are included.

2500. Independent Study/(1-3).F;S;SS.

3110. Political Theory Through Sixteenth Century/(3).F.

An examination of political theory from approximately 300 B.C. through the Sixteenth Century. The political philosophers studied include Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Jean Bodin. Emphasis is placed on historical development of political philosophy.

3120. International Politics and Foreign Policy/(3).F;SS.

A study of the goals of foreign and national security policy and of the means by which they are achieved.

3130. American Political Parties and Interest Groups/(3).F;SS.

A study of the organization, tactics and functions of political parties and interest groups. A comparison of goals and methods of influencing public policy ranging from the normal to the revolutionary. Campaigning techniques discussed.

3150. The Judicial Process/(3).F.

An examination of the development and powers of the judiciary as seen through selected cases; and an examination of the operation and behavior of the courts and their personnel.

3210. Political Theory From the Seventeenth Century to the Present/(3).S.

A study of political thought from the Seventeenth Century to the present. Political philosophers studied include Hobbes, Locke, Rousseau, Burke, Hegel, Bentham, Marx, and Lenin. Emphasis is placed on the development of nationalism, capitalism, communism, socialism, and fascism.

3230. American Legislative Politics/(3).S.

An examination of the structure functions and behavior of Congress and state legislatures, with emphasis on how composition, leadership, constituency role orientations and interest groups actively influence public policy The legislative institutions are also viewed in relationship to larger environments and inclusive political systems.

3240. Comparative Politics/(3).S.

An examination of political system challenges and development patterns, with comparative reference to a number of systems including the USSR, Britain, France, and selected African and Asian countries.

3328. Socio-Political Environment of Leisure and Recreation/(2).F.

An interdisciplinary approach to the study of the integration of social and political structure and function and human development of and participation in recreational activity. A practical approach through social and political phenonema. Prerequisite: Junior standing. Same as SOC 3328.

3330. Urban Politics/(3).F.

A focus upon politics in urban areas. Topics include the problems of urban government, politics within metropolitan areas, community power structures, and decision-making structures.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3660. Administrative Law/(3).S.

A study of the administrative powers and procedures in the United States and of the relevant experience of some other democracies such as Britain, France with special attention to the legal and administrative methods of achieving a responsible bureaucracy and of balancing public interest with private rights.

4170. Voting and Opinion/(3).F.

An examination of the similarities and differences between public opinion and voting, how opinion affects the voting decision and the factors which cause change in opinion intensity and direction.

4230. The Presidency and the Executive Branch/(3).F.

An examination of the central role of the American presidency in the political process. Emphasis is given to contemporary responsibilities of the President and of the major agencies supporting the President.

4270. Political Socialization/(3).S.

Focuses upon the process by which political behavior is learned; analyzes the role of socialization agencies throughout the life cycle; cross national comparisons; political elites and masses examined; discussion of counter-culture trends.

4310. American Political Theory/(3).S.

A survey of American political thought from the colonial period to the present. Theorists discussed include Hamilton, Jefferson, Calhoun, and Dewey. Special emphasis is placed on the various modes of American political thought in the Twentieth Century.

4400. Selected Topics in Political Science/(1-3). On demand.

An intensive examination of selected topics.

4540. Studies in Regional Political Patterns/(1-3). On demand.

An examination of selected regions of the world which have common historical and cultural patterns influencing their political styles and capabilities. Topics may vary from semester to semester.

4550. Law and Society/(3).S.

An examination of the relationship between the values and culture of a society and the laws which it adopts; how law interacts with and responds to change in social values as seen by the courts through selected cases.

4660. Comparative Public Administration/(3).S.

A study of the administrative systems of selected countries with special attention to the various methods of and approaches to comparative analysis and to the relationships between administrative institutions and their environmental settings.

4720. International Organization and Law/(3).S.

An examination of the goals and structures of multinational organizations created to solve problems between nations, and the ways in which disputes between nations are settled.

4800. Internship in Public Affairs/(1-4).F;S;SS.

Field work in community agencies and involvement in problem solving in these agencies.

Graduate Courses

5000. Bibliography and Research/(3). F;SS.

5030. Seminar in American Government and Politics/(3).F;SS.

Special investigation of selected topics in American government and politics. The topics may vary from year to year.

5050. Seminar in Public Law and Judicial Behavior/(3).S.

An examination of the multiple roles of law and the judicial system in the formulation and execution of public policy, to include the role of the judiciary in politics and government with emphasis on variables affecting judicial decision making.

5120. Readings and Research in International Relations/(3).F.

This course will concern itself with indepth treatment of the problems and policies of developing nations, the issues of colonialism, imperialism, nationalism, and an examination of current methodological trends in the exploration of these problem areas.

5160. Problems of Public Administration/(3).S.

An examination of selected problems in public administration with emphasis on analytical case studies.

5240. Seminar in Comparative Government and Politics/(3).S.

An examination of selected topics in comparative political analysis. The topics may vary from year to year.

5330. Problems in State and Local Government/(3).S.
Research on selected topics and American state and local government. The topics may vary from year to year.

5500. Independent Study/(1-3).F;S;SS.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Department of Psychology

Walter T. Snipes, Chairman

The objectives of the Department of Psychology are:

1. To prepare students to enter graduate programs in psychology and/or occupations.
2. To create viable interest in psychology—an interest that will be paralleled by a growing competency in the discipline.
3. To provide future teachers with workable repertoire of sound psychological principles to underlie the teaching methodology.
4. To advance psychology as a science and as a means of advancing human welfare.

A major in psychology leading to the Bachelor of Arts degree consists of 30 semester hours including Psychology 2201, 4658; two courses from 3364, 3365, 4650, 4651; Mathematics 3810; and 15 hours of psychology electives.

A minor in psychology consists of 15 semester hours of psychology.
The Master of Arts degree in General-Theoretical psychology consists of 30 semester hours including Psychology 4650, 4658, 5000, 5505, Mathematics 5810, and either Psychology 5550 or 5551. A reading knowledge of an approved foreign language is required of all candidates for the degree.

The candidate must select a minor in an approved area.

Within the general-theoretical framework, a candidate may choose to pursue a program for Junior College teaching. The Master of Arts degree in Junior College Teaching consists of 30 semester hours with a thesis and 36 semester hours without a thesis. The following courses must be completed: Psychology 4650, 4658, 5000, Mathematics 5810, either 5550 or 5551, and education requirements for the degree.

Also within the general-theoretical framework a candidate may choose a program in Vocational Rehabilitation psychology. The Master of Arts degree with a concentration in rehabilitation psychology consists of 30 semester hours with a thesis and 36 semester hours without a thesis. The required courses with thesis are: Psychology 4700, 5000, 5505, 5800, Counselor Education and Research 5200, and Counselor Education and Research 5220. Electives must be approved by the advisor of the candidate's program. The required courses when a thesis is not written are: Psychology

4700, 5000, 5800, Counselor Education and Research 5200, Counselor Education and Research 5220, Administration, Supervision and Higher Education 5420, and Administration, Supervision and Higher Education 5440. Electives must be approved by the advisor of the candidate's program.

The Master of Arts degree in Clinical Psychology consists of 48 semester hours of graduate credit including four semester hours of thesis and six semester hours of internship. Required courses include Psychology 5000, 5700, 5701, 5710, 5711, 5750, 5751, 5752, six semester hours in an approved within department concentration or an approved minor, and eight semester hours of electives.

Prerequisites may be waived by permission of chairman and/or instructor. Psychology 2201 or equivalent prerequisite to all courses in psychology.

Courses of Instruction in Psychology

(For a description of the notation used in the following list of courses, see page 42.)

2201. General Psychology/(3).F;S;SS.

General Psychology introduces students to the study of human and animal behavior, providing a review and survey of basic principles and widely cited research. A first course in psychology typically samples generously from the following areas of theoretical and applied psychology: experimental design and measurement; physiological aspects of behavior; learning and behavior modification; sensation and perception; personality; social psychology; clinical psychology and psychotherapy.

2500. Independent Study/(1-3).F;S;SS.

3301. Developmental Psychology/(3). F;S;SS.

Developmental Psychology is a study of the various aspects of human growth and development from conception through maturity. Attention is devoted to these processes as they may pertain to the educational setting.

3302. Educational Psychology/(3). F;S;SS.

An analysis of the principles of classroom learning. The major concepts, theories, and research in the acquisition of knowledge and interpersonal social skills are emphasized. Special attention is given to the educational application of these principles.

3318. Outdoor Recreation: An Ecological and Behavioral Approach/(2).S.

This course is designed to teach the recreation manager better to understand the complex interactions between the recreation resource and the human user. Recreation is described and studied as need-fulfilling behavior which can be enhanced by an understanding of the biological entities (flora and fauna) and their ecological relationships. (Same as BIO 3318)

3364. Principles of Learning/(3).F.

Theories and evidence concerning the nature of learning and learning phenomena. Emphasis is upon lawful relationships between characteristics of learning tasks and resultant performance of both animals and humans.

3365. Experimental Psychology/(3).S.

An introduction to basic principles and methods of conducting psychological experiments is presented through lectures, discussions, and laboratory experience in a variety of problem areas, such as perception, learning, and social processes. Strongly recommended for those preparing for graduate study. Prerequisite: MAT 3810.

3390. An Introduction to and Procedures in the Helping Professions/(2).F.

Historical, philosophical, and legal aspects of the helping professions. Em-

phasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed. (Same as HR 3390.)

3392. Medical Aspects of Disability/(3).S.

Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutional setting. (Same as HR 3392.)

3440. Seminar in Critical Issues in Psychology/(3).S.

Consideration of some of the contemporary research issues in psychology. Opportunities for majors to consider a particular aspect of psychology in depth. Topics vary from year to year depending upon the interests of students. Prerequisites: 12 hours of psychology.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4550. Psychology of Personality/(3). F;SS.

A study of factors involved in the developmental and applied aspects of the broad area of personality theory. Prerequisite: PSY 2201.

4551. Social Psychology/(3).S;SS.

Social psychology surveys group phenomena and the effects that group influence has on individual behavior. Key topics reviewed include social validation processes, conformity and obedience behavior, cognitive dissonance, prejudice and attitude change, group differences, and a critique of intelligence testing. Reading assignments will provide a brief look at other major areas in social psychology.

4552. Abnormal Psychology/(3).F;SS.

The study of individuals and groups who demonstrate atypical behaviors. This may include historical definitions of abnormality, standard psychiatric nosology and etiology, prevention and treatment of maladaptive behaviors. The concept of ultra-normal behavior may also be explored. Theoretical basis for the course will reflect biases of the professor.

4555. Advanced Educational Psychology/(2).F;S;SS.

The course is primarily intended as an exploration of how learning theory can be applied in the school environment by teachers, counselors, and administrators to enhance the learning experience. Prerequisite: PSY 3302 or approved teaching experience.

4561. Field Work in Applied Psychology/(1-4).F;S.

Supervised placement in a facility serving persons with physical, mental or emotional problems. Opportunity is provided for observation and participation in the therapeutic program. The student must arrange his schedule with his advisor to provide adequate time for the latter's participation.

4650. Physiological Psychology/(3).F.

An in-depth examination of the physiological correlates of behavior. Emphasis is placed on sensations, emotions, memory, and the basic drives.

4651. Perception/(3).S.

An in-depth survey of classical and contemporary theories of perception. Visual and auditory systems are emphasized.

4652. Comparative Psychology/(3).S.

Covers psychological processes in infra-human organisms. The plan of animal experimentation in psychology and animal research. Prerequisite: MAT 3810 or equivalent.

4658. History and Systems of Psychology/(3).F.

An in-depth analysis of the physiological and philosophical antecedents for

modern psychology, and the systems which emerge from these. The course is designed to provide perspective and closure relevant to the development of behaviorism, neo-behaviorism, psychoanalysis, and gestalt psychology.

4660. Psychological Tests and Measurements/(3).S.

A critical survey of measuring devices in clinical, counseling, and educational practice emphasizing theory, development and standardization. Laboratory practice in methods of appraisal to include their administration, scoring and interpretation. Prerequisite: MAT 3810.

4670. Industrial Psychology/(3).F.

A survey of the potential and actual applications of mental health principles in business and industrial organization. Emphasis on the nature and etiology of behavioral deviations and organizational factors related to these deviations.

4671. Organizational Psychology/(2).S.

A survey of potential and actual applications of psychological principles and methods to the problems of organizations. Attention given to organizational structure, individual motivation, the dynamics of work groups and personnel functions.

4700. Behavior Modification/(3).F;S.

The application of operant contingency management principles to personal, interpersonal, and learning problems.

Graduate Courses

5000. Research Problems/(3).F;SS.

An advanced treatment of principles and procedures for conducting psychological research, including problem formulation, sampling, research design, and data analysis. Students will propose and conduct original research projects which will be supplemented by concurrent lectures and discussions concerning selected methodological and substantive issues.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(4).F;S;SS.

5530. Selected Topics/(1-3). On demand.

5540. Seminar/(3).S.

Consideration of some of the contemporary research issues in psychology. Opportunity for graduate students to consider a particular aspect of psychology in depth. Topics vary from year to year depending upon the interests of students. Prerequisite: Six graduate hours in psychology.

5550. Theories of Personality/(3).F.

A study of contemporary and/or traditional theories of individual personality structure and development. Prerequisite: PSY 4550 or equivalent.

5551. Theories of Learning/(3).F.

A survey and critique of contemporary and historically significant theoretical systems and models of learning processes. The positions of Pavlov, Thorndike, Guthrie, Tolman, Hull, and Skinner will be considered, as well as recent theoretical and empirical developments. Prerequisites: PSY 3364 and 3365 or equivalent.

5552. Advanced Abnormal Psychology/(3).S.

A critical examination of major theories and data concerning the emotionally handicapped. Emphasis placed on recent findings and experimental research. Alternative ways of viewing "abnormal" behaviors may be presented. Prerequisites: PSY 4550, 4552, or 5550.

5560. Child Psychology/(2).F;SS.

The development of behavior of the child. Emphasis will be placed upon growth and maturation of structure, the acquisition of habits and emotions, development of capacity, formation of interests, mental hygiene, and physiological facets of behavior which have particular implications for teachers, counselors, and librarians.

5565. Adolescent Psychology/(2).S;SS.

A study of students of high school age in the light of modern investigations of the physical, intellectual, and emotional changes as well as the relation of physical development to mental growth, adolescent interests, personality and social consciousness, and the adaptation of programs of study and amusement.

5590. Evaluation of Exceptional Children/(3).F;SS.

A study of special diagnostic procedures with children who have physical, intellectual and sensory impairments.

5591. Rehabilitation Services/(2).S.

Vocational planning and work preparation for the handicapped. Includes consideration of basic occupational skills, work, training, and sheltered workshop programs. (Same as HR 5591.)

5592. Advanced Medical Aspects of Disability/(3).S;SS.

What constitutes severe disability, its effect on the individual, and multidisciplinary approaches to amelioration. Disabilities will include epilepsy, spinal cord and brain injuries, degenerative diseases, and their sequelae. Prerequisite: PSY 3392. (Same as HR 5592.)

5700. Psychological Assessment I/(3).F.

A practice based study of the development, standardization, and interpretation of a variety of cognitive and developmental measures including the Wechsler Scales, Stanford-Binet and selected other individually administered psychometric instruments. Supervised practice in administration, scoring, and interpretation is provided.

5701. Psychological Assessment II/(3).S.

Theory, research findings and clinical applications of major projective techniques with emphasis on Rorschach and TAT. Techniques for assessment of family interactions, couples dynamics, and other interactional groups may also be included. New and developing techniques used for assessing individuals may be included at the professor's discretion. Prerequisites: PSY 5552 and 5700.

5710. Behavior Change I/(3).F.

Theory and application of operant and respondent learning principles to the treatment of maladaptive behaviors in various settings. Self-management and the acquisition of new skills are also emphasized. A practicum experience is provided.

5711. Behavior Change II/(3).S.

A critical evaluation of the current major approaches to psychotherapeutic behavior change including research findings applications. Prerequisite: PSY 5710.

5750. Clinical Practicum I/(3).F.

A group process oriented experience in which the study participants focus on the development of such interpersonal skills as communication of self to others, feedback, self-disclosure; and constructive confrontation of others. Theory in the above areas is integrated with experience.

5751-5752. Clinical Practicum II and III/(3-3).F-S.

Progressive assumption of responsibility in implementing behavior change, psychological assessment, consultation skills and other professional responsibilities of the clinical psychologist or rehabilitation psychologist. Supervision in the above areas is provided by staff psychologists and other area professionals in settings such as The Counseling and Psychological Services Center, area mental health centers, hospitals, and developmental evaluation units. Prerequisite: Admission to MA program in clinical psychology or rehabilitation psychology.

5800. Clinical Internship/(6).F;S.

Six months full-time placement in mental health setting under professional supervision; to include experience with psychological evaluation, individual and group psychotherapy and behavior change, work with interdisciplinary team; consultation with community agencies and schools, and work in institutional settings. Prerequisite: Approval of the director of the clinical program.

Department of Sociology and Anthropology

Alfred M. Denton, Jr., Chairman

The purposes of the Department of Sociology and Anthropology are:

1. To help the student gain an understanding of the structures and processes through which the individual participates in society.
2. To help provide a mature understanding of social behavior.
3. To prepare students for post-graduate programs in sociology and anthropology.
4. To help prepare future teachers in colleges and in primary and secondary schools.
5. To help prepare students for a wide variety of vocations and professional careers.

A major in sociology leading to the Bachelor of Arts degree consists of 30 semester hours including Sociology 2201, 3885, 4610, and 21 semester hours of electives in sociology. In addition, Mathematics 3810 and Anthropology 1210 are required. Mathematics 1020 should be the course taken to fulfill the mathematics requirement in general education.

A major in anthropology leading to the Bachelor of Arts degree consists of 30 semester hours including Anthropology 1210, 4420, and 24 semester hours of electives in anthropology. In addition, Sociology 2201 and Mathematics 3810 are required. Mathematics 1020 should be the course taken to fulfill the mathematics requirement in general education.

A minor in sociology consists of 18 semester hours including Sociology 2201, Anthropology 1210, and 12 semester hours of electives in sociology.

A minor in anthropology consists of 18 semester hours including Anthropology 1210, Sociology 2201, and 12 semester hours of electives in anthropology.

For the curriculum for a major in social science with concentration in sociology and anthropology, leading to the Bachelor of Science degree and teacher certification, see page 140. Mathematics 1020 should be the course taken to fulfill the mathematics requirement in general education.

The program leading to the Master of Arts degree for junior college teachers with a major in sociology or the program leading to the Master of Arts degree for secondary school teachers with a major in sociology consists of 30 semester hours with a thesis and 36 semester hours without a thesis. In either of the two programs the following courses must be completed: Sociology 5000, 5100, 5200, Mathematics 3820 and the required courses in education. If the candidate has not had the equivalent of Sociology 4610 and Mathematics 3810, these courses must be completed and graduate credit will be received for Sociology 4610.

For the curriculum for a major in social science with a concentration in sociology leading to the Master of Arts degree for Junior College Teachers or for a major in social science with a concentration in sociology leading to the Master of Arts degree for Secondary School Teachers, see page 147.

Courses of Instruction in Sociology and Anthropology

(For a description of the notation used in the following list of courses, see page 42.)

Sociology

1110. Marriage and Family Relations/(3).F;S.

May not be counted toward a major or minor in sociology in the B.A. degree program. Analysis of the forms and functions of family relationships; sex roles, marital choice, procreation, and socialization; history of American family patterns and effects of contemporary social changes. *This course is for freshmen and sophomores. Others must have permission of instructor.*

1120. Social Problems in American Society/(3).F;S.

Some of the major social problems in American society will be analyzed through the application of basic sociological principles. Evaluation will be made of the techniques utilized by society to alleviate social problems, along with an analysis of the impact of social and technological change. *This course is for freshmen and sophomores. Others must have permission of instructor.*

2201. Introduction to Sociology/(3).F;S.

An introduction to the field of sociology. How society and its component parts are structured; analysis of the structure and function of social institutions and groups; relationships of the individual to society. *Prerequisite to all sociology courses except 1110 and 1120.*

2500. Independent Study/(1-4).F;S.

3200. Delinquency and Criminology/(3).F.

Evaluation of knowledge and research in the causation and correction of juvenile delinquency and criminality; family background and socialization, individual life experience, cultural and ecological situations affecting delinquents and criminals; analysis of attempts to predict and control delinquency and crime.

3300. Social Deviation/(3).S.

The course emphasizes the social factors in causation. Review is made of the leading theories in deviation and then deviation types are analyzed; homosexuality, drug use and addiction, alcoholism, alienation, etc. Prerequisite: SOC 3200 or permission of instructor.

3328. Socio-Political Environment of Leisure and Recreation/(2).F.

An interdisciplinary approach to the study of the integration of social and political structure and function and human development of and participation in recreational activity. A practical approach through social and political phenomena. Prerequisite: Junior standing. (Same as PS 3328.)

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the sociology curric-

ulum. May be repeated for credit when content does not duplicate.

3600. The American Social Welfare System/(2).F.

Selected target populations are used for studying social services in American society. Historical perspectives, ideal and real values that underlie programming, service delivery networks, employment opportunities, and certain dilemmas are considered. Agency visits required.

3605. Introduction to Social Work/(2).S.

Purpose, purview, fields, roles, and methods; principles of practice derived from psychological-social process bases. Casework is emphasized. Prerequisite: SOC 3600.

3700. Political Sociology/(3).F.

Social influences on political behavior; the relationship between political and other institutions. Alternate years, offered 1976-77.

3885. Research Methods/(3).F;S.

Relationship of theory to research; research design, sampling procedures, research analysis.

4100. The Community and Urban Development/(3).S.

Analysis of the structure and functioning of rural and urban communities; social organization and change within and among communities.

4200. Propaganda/(2).F.

A study of the media and techniques of propaganda and of propaganda as an instrument of public opinion formation. Concepts from political science and sociology will be used in an analysis of the formation and nature of public opinion and pressure groups. Alternate years, offered 1975-76.

4490. Field Experience; Internship/(2-4). On demand.

4555. Social Change/(2).F;S.

A review and analysis of modernization of society, the initiation and processes of change, and the effects of change on the social structure and social institutions.

4560. Race and Ethnic Relations/(3).F.

Analysis of intergroup relationships; the bases of conflict, accommodation, and assimilation; the nature and consequences of prejudice and discrimination; evaluation of proposals for reduction or elimination of prejudice and discrimination.

4610. The Development of Sociological Theory/(3).F;S.

Development of sociological theory from Auguste Comte (19th Century) to World War II.

4650. Population and Society/(3).S.

Systematic study of the growth and change of populations in relation to their cultural setting; trends in fertility, mortality, migration, composition, and population policies; national and international implications of recent population growth trends.

4700. Collective Behavior/(2).F.

Analysis of crowd, mass, public behavior, patterns of leadership, institutionalization, and social control in social movements of various kinds and their effects upon the social order.

4800. Sociology of the Family/(3).S.

The origin and development of the family as a social institution; the contemporary family in various cultures; the relationship of the family to the economic, political, religious, and educational institutions in American society.

Graduate Courses

5000. Bibliography and Research/(2).S.

5025. Concepts in Sociology/(3).F;S.

Systematic survey and critical analysis of selected sociological concepts and theories. *This course is for graduate students who have only a limited background in sociology. Prerequisite: Permission of instructor or department chairman.*

5080. Urban Sociology/(3).F.

Urbanism as a way of life. Growth and development of urban areas, urban social organization, change and problems, ecological patterning, urban planning and social controls.

5100. Theory Construction/(3).F.
This course will provide the tools for analyzing both the classical and contemporary forms of social theory and aid students in the development of their own theories and conceptual models as part of an integrated research process. The aim is to provide a background in the logic, structure, and usage of sociological theory. Prerequisite: SOC 4610 or equivalent.

5200. Contemporary Sociological Theory/(3).S.
A review and assessment of the works of leading contemporary sociologists with critical analysis centering around the nature of sociological explanation.

5250. Demography/(2).F.
A systematic survey and analysis of major theories of population growth and change. Intensive analysis of world population trends.

5300. Social Structure/(3).S.
An analysis of the nature and function of social stratification; caste, estates, classes, rank, and prestige; community power structure; bureaucratic organization.

5350. Contemporary Social Issues/(3).F.
A critical analysis of some of the major social issues in American society. Emphasis will be placed upon the theoretical and empirical implications of social attitudes toward the explanation, treatment, and public policy decisions related to these issues.

5400. Field Experience; Internship/(2-4). On demand.

5500. Independent Study/(1-4).F;S.

5505. Master of Arts Thesis/(2-4).F;S.

5530. Selected Topics/(1-3). On demand.
An opportunity to study a special topic or combination of topics not otherwise provided for in the sociology curriculum. May be repeated for credit when content does not duplicate.

Anthropology

1210. Introduction to Anthropology/(3).F;S.
An introduction to the field of anthropology; a general survey of human evolution, the varieties of human societies around the world, and the nature of culture.

2215. Cultural Anthropology/(3).F;S.
The nature of culture and society; a study of a variety of cultures on different developmental levels, including social, economic, political, educational, and religious systems and their interrelationships; a comparison of preliterate with contemporary societies.

2235. North American Archaeology/(2).F.
A general survey of Indian life in North America before white contact. Basic archaeological concepts will be introduced; emphasis on the prehistory of the Eastern U.S., the Southwest, and the Great Plains. This course logically *precedes* Anthropology 3400, North American Indians. The two courses will frequently be team-taught.

2500. Independent Study/(1-4).F;S.

3310. Man and His Environment/(3).F;S.
The interrelationship between man and his natural environment. How man adapts to and changes his surroundings; the role of the environment in man's biological and cultural evolution; the effects of environmental deterioration on modern man.

3325. Physical Anthropology/(3).F.
The study of human evolution and of the variation in modern man including: the fossil record, evolutionary processes; development and dispersal of modern races. This course logically *precedes* Anthropology 3335, World Prehistory. The two courses will frequently be team-taught.

3335. World Prehistory/(3).S.
A study of the origins and development of cultures around the world from the earliest forms of fossil man to the high civilizations of the Old and New Worlds. This course logically *follows* Anthropology 3325, Physical Anthropology. The two courses will frequently be team-taught.

3400. North American Indians/(3).F;S.
An ethnographic survey of the American Indian cultures from the Arctic to

Mexico. Prerequisite: Anthropology 1210 or 2215. This course logically *follows* Anthropology 2235, North American Archaeology. The two courses will frequently be team-taught.

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

4100. Social Anthropology/(3).F.

The cross-cultural study of social structure, based upon cross-cultural research. Consideration will be given to the contrast between the English and French schools of kinship model construction with emphasis on the varieties of social institutions among primitive societies. There will be analysis of the organization of primitive societies and of small communities in modern non-industrial and semi-industrial states, Alternate years, offered 1976-77.

4402. Archaeological Method and Theory/(3).S.

A survey of the basic methods and techniques of archaeological field work and analysis, and the theory and methodology of archaeological interpretation. Occasional weekend field trips. Prerequisite: ANT 2235.

4420. Ethnological Method and Theory/(3).F.

A critical evaluation of the most influential ideas and theories in ethnology from the 19th Century through modern theoretical schools, and an examination of ethnological research methods, techniques, and problems confronted in field research. Prerequisite: ANT 1210.

4430. Magic, Witchcraft, and Religion/(3).F.

A cross-cultural examination of the nature and function of belief systems. Emphasis is placed on understanding the religious systems of primitive man in order to provide a means through which our own beliefs can be more objectively examined. Various theories of anthropologists, sociologists, psychologists concerning the nature and sociological-psychological functions of religious belief systems are examined.

4445. Field School in Archaeological Techniques/(2-3).SS.

An introduction to the techniques of recovery of archaeological data, including training in such skills as surveying, controlled surface collection, excavation and processing and preservation of artifacts. This course is taught on an archaeological site in conjunction with Anthropology 4446. *These courses should be taken simultaneously.*

4446. Field School in Archaeological Methods/(2-3).SS.

An introduction to the methods of recovery and analysis of archaeological data, including an introduction to archaeological theory and training in field and laboratory skills.

4565. Folk and Peasant Cultures of the Modern World/(3).S.

Descriptive and theoretical analysis of modern folk and peasant cultures in different areas of the world. Emphasis on problems of social change and urbanization. Alternate years, offered 1975-76.

5530. Selected Topics/(1-3). On demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

The College of Business

Richard E. Sorensen, Dean

Charles C. Speer, Assistant Dean

The College of Business has as its primary aim the development of future leaders for the business, industrial, and educational communities. Through courses of instruction and other educational programs, an attempt is made to develop the analytical skill and decision-making ability of each student; to enhance one's understanding of economic concepts; to increase his knowledge of business and educational practices and innovations; and to expand one's awareness of the role and function of industrial organizations.

Departments

The College of Business consists of the following four departments:

Accounting and Finance	Business Education and Office Administration
Business Administration	Economics

Degrees Offered

Through the College of Business, students can obtain the following degrees:

1. Bachelor of Science in Business Administration (BSBA), with majors in accounting, banking and finance, economics, insurance and real estate, individually-designed, management, and marketing.
2. Bachelor of Science in business education (with teacher certification) or in office administration.
3. Master of Arts in economics and business.

The Bachelor of Arts degree in economics is offered through the College of Arts and Sciences in cooperation with the Department of Economics.

General Degree Plan Outline

I. A minimum of 50 semester hours outside of the College of Business as follows:

General Education requirements	38 s.h.	
Economics 2010-2020	6 s.h.	
Free electives	6 s.h.	
TOTAL		50

II. A minimum of 54 semester hours inside the College of Business as follows:

Core requirements			
AF 2100, 2110, 3680		9 s.h.	
BA 3050, 3150, 3600, 4750		10 s.h.	
BE 2150, 2660		5 s.h.	
ECO 3750		4 s.h.	
	TOTAL		28
Major requirements		8-16 s.h.	
College of Business electives numbered 3000 or above		10-18 s.h.	
	TOTAL		26
	TOTAL		54

III. Completion of an additional 18 semester hours—at least one-half of which must be in courses numbered 3000 or above. In addition, at least one-half must be outside the College of Business.

TOTAL	18
Total semester hours required for graduation	122

Bachelor of Science in Business Administration Degree

In order for a student to earn the Bachelor of Science in Business Administration degree, the following requirements must be met:

1. Completion of a minimum of 122 semester hours with a cumulative grade-point average of at least 2.00. A grade-point average of 2.00 on all work attempted in the College of Business. A transfer student must have at least a 2.00 grade-point average on all work attempted in the College of Business and complete a minimum of eight semester hours in his major at ASU.

2. Completion of a minimum of 50 semester hours outside the College of Business including Economics 2010-2020 and the university-wide general education requirements as outlined in the General College section.

3. Completion of a minimum of 54 semester hours in the College of Business, including:

   A. The 28 semester hours core in the College of Business as follows:

      Accounting and Finance 2100, 2110, 3680
      Business Education and Office Administration 2150, 2660
      Business Administration 3050, 3150, 3600, 4750
      Economics 3750

   B. A minimum of 26 semester hours in the College of Business, at the 3000 level or above including the major requirements.

4. Completion of an additional 18 semester hours—at least one-half of which must be in courses numbered 3000 or above. In addition, at least one-half must be outside the College of Business.
5. No minor is required for the BSBA degree.
6. Completion of residence requirements.
7. Compliance with regulations concerning satisfactory citizenship and the settlement of all expense accounts.
8. Recommendation of the faculty.

Advising and counseling assistance is available to each student to help him select and plan an academic program. However, *the final responsibility for meeting all academic requirements remains with the student.*

Bachelor of Science Degree in Office Administration

Degree requirements are identical to the BSBA degree program outlined above.

Bachelor of Science in Business Education
(approved for North Carolina teacher certification) *

In order for a student to earn the Bachelor of Science degree in business education, the following requirements must be met:

1. Completion of a minimum of 122 semester hours, with a cumulative grade-point average of at least 2.00. A grade-point average of 2.00 on all work attempted in the College of Business. A transfer student must have at least a 2.00 grade-point average on all work attempted in the College of Business and completed a minimum of 8 semester hours in his major at ASU.
2. Completion of a minimum of 50 semester hours outside the College of Business including Economics 2010, 2020, Speech 1010, and the university-wide general education requirements as outlined in the General College section.
3. Completion of a minimum of 54 semester hours in the College of Business, including:

   A. The 28 semester hours core in the College of Business as follows:

      Accounting and Finance 2100, 2110, 3680
      Business Education and Office Administration 2150, 2660
      Business Administration 3050, 3150, 3600, 4150
      Economics 3750

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* If a student is planning to teach in another state, certification requirements may differ somewhat; therefore, please consult with the department chairman or the appropriate state agency.

B. Completion of the 16 semester hour major requirements for teacher certification.

C. A minimum of 10 semester hours in the College of Business, at the 3000 level or above including the major requirements.

4. Completion of professional education requirements.
5. Completion of residence requirements.
6. Compliance with regulations concerning satisfactory citizenship and the settlement of all expense accounts.
7. Recommendation of the faculty.

Advising and counseling assistance is available to each student to help him select and plan an academic program. However, *the final responsibility for meeting all academic requirements remains with the student.*

Master of Arts Degree

A Master of Arts degree with a major in economics and business and a minor in secondary education and/or junior college education consists of 36 semester hours (of which 24 semester hours must be in the College of Business). These hours include Business Education 5000; a course numbered 5000 or above in marketing, finance, or economics; Business Administration 5150; 15 semester hours in the College of Business selected with the approval of the graduate advisor; and, the appropriate courses in secondary or junior college education.

If a student wishes, he may, by the selection of electives in the College of Business, place emphasis upon (1) accounting and finance, (2) business administration, (3) business education, or (4) economics.

Bachelor of Arts Degree

In cooperation with the Department of Economics, the College of Arts and Sciences offers the Bachelor of Arts degree in economics. For the requirements for this major see the Department of Economics. For the requirements for this degree program, see page 60.

Internship in Industry Program

Approximately thirty-five College of Business students each semester are studying off campus as interns in business and industry. The program recognizes that all learning cannot take place in the typical classroom-lecture situation and that students need to make career plans early in their programs at Appalachian, not during the final semester before graduation. Students work in internships usually during the junior year, while there is plenty of time for the student to change their course of study based on the internship experience. Internship programs are coordinated with academic programs and are based on the principle that students learn by doing. This program is an expansion of the concept of

a "classroom" to include any environment which is more conducive to the study of the subject in question.

Students receive both academic credit and scholarship aid from the participating firms for the internship experience. In four years some 250 different business firms have participated and 380 interns have received a total of more than $300,000 in scholarship aid.

Executive-in-Residence Program

Through this program, an executive with a business firm becomes a full-time member of the faculty in the College of Business for a semester or shorter period of time. Students can interact with active businessmen with varied backgrounds adding an exciting new dimension to the educational process, as well as gaining valuable insight into the "real world" of business prior to graduation.

Admission to the College of Business

To be admitted to the College of Business as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least a 2.00.
3. Completed:
   a. English 1000, 1100
   b. Mathematics 1030
4. Been accepted by the College of Business as a major in one of the areas designated.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairman of the Department of Secondary Education.

Transfer of Credit From a Two-Year Institution

Courses numbered 1000-2999 in the College of Business at Appalachian may be acceptable for transfer from an accredited two-year institution as credit toward meeting degree requirements within the college. Credit for upper-division courses (numbered 3000 or above) taken at a two-year institution may be earned by examination.

Department of Accounting and Finance

Albert L. Craven, Chairman

The objective of the Department of Accounting and Finance is to provide undergraduate and graduate training as follows:

1. Accounting specialization is offered in management accounting, public accounting, tax accounting, and accounting for governments, hospitals, and other non-profit organizations.

2. Finance specialization is offered either through the accounting or banking and finance major. Opportunities include financial management of industrial concerns or financial institutions and investments analysis. Specific requirements for the banking and finance major and minor are shown in the Economics Department section of this catalog.

3. Preparation for graduate study is offered in either accounting or banking and finance.

A Bachelor of Science in business administration degree with a major in accounting may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree:

ACT 3100-3110	Intermediate Accounting I and II	6 s.h.
ACT 3200	Cost Accounting I	3 s.h.
ACT 3580	Taxation I	3 s.h.
ACT 4120	Auditing	3 s.h.

In addition to these requirements, each accounting major must complete a minimum of 11 semester hours in College of Business courses numbered 3000 or above. Students intending to qualify for one of the professional examinations in accounting should consult with the certifying agency to determine requirements in addition to the major courses listed above.

Accounting and finance majors are advised to use their *elective hours* in areas such as law, finance, data processing, mathematics, statistics, economic theory, additional accounting courses, and management. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

A minor in accounting may be obtained by the completion of 15 semester hours, consisting of ACT 2100-2110 and nine additional semester hours of electives in accounting.

Courses of Instruction in Accounting and Finance

(For a description of the notation used in the following list of courses, see page 42.)

Accounting

2100. Financial Accounting/(3).F;S;SS.

The initial course in the theory and practice of financial accounting. The topics emphasized include the preparation, reporting, and analysis of financial data. Prerequisite: Sophomore standing.

2110. Managerial Accounting/(3). F;S;SS.

A course dealing with the concepts and development of accounting data for decision making. Topics emphasized include manufacturing cost systems, cost-volume-profit analysis, and budgeting concepts. Prerequisite: ACT 2100.

2160. Introduction to Individual Taxation/(1).F;SS.

State and Federal income tax returns. Topics emphasized include gross income, adjusted gross income, deductions and exemptions, capital gains and losses, computation of tax liability, audit of tax returns, tax questions, the IRS and the courts. Prerequisite: None. Not available to accounting majors.

2500. Independent Study/(1-4).F;S;SS.

3100. Intermediate Accounting I/(3). F;S;SS.

Financial accounting theory and practice underlying the accounting process. Topics emphasized include asset and liability accounts, the related income measurement, valuation, and reporting problems associated with these accounts. Prerequisite: ACT 2110.

3110. Intermediate Accounting II/(3). F;S;SS.

A continuation of Accounting 3100. Topics emphasized include an analysis of stockholders' equity accounts, income determination problems, changes in accounting methods and estimates, funds statements, statement analysis, and special problems. Prerequisite: ACT 3100.

3200. Cost Accounting I/(3).F;S;SS.

Introduction to cost accounting, definitions and objectives. Topics emphasized include cost-volume-profit relationships, job-order accounting, budgeting, systems design and human motivation, flexible budgets, standard costs, contribution approach to decisions, cost allocation, joint product and by-product costing, process costing. Prerequisite: ACT 2110.

3210. Cost Accounting II/(3).F;S;SS.

Cost analysis and capital budgeting. Topics emphasized include inventory planning and control, spoilage and scrap, systems and internal control, performance measurement, transfer pricing, decision models, cost behavior patterns, analysis of variance, mix and yield variances, operations research techniques, linear programming. Prerequisite: ACT 2110.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3550. Accounting For Non-Profit Organizations/(3).S;SS.

Application of principles of accounting, budgetary control, and financial management to nonprofit organizations. Discussion and cases will be drawn from municipal and county governmental units, universities, hospitals, and other nonprofit organizations. Prerequisite: ACT 2110.

3580. Taxation I/(3).F;S;SS.

Computation of tax for individuals. Topics emphasized include business and personal deductions, inventories, accounting methods, partnership returns. Prerequisite: ACT 2110.

4120. Auditing/(3).F;S.

Study of auditing standards and procedures for a contemporary audit. Topics emphasized include working papers, reports, ethics, legal responsibility, and internal control. Prerequisite: ACT 3110.

4550. Accounting Theory/(3).S.

Study of the history and development of accounting principles with special emphasis on the authoritative pronouncements. Prerequisite: ACT 3110.

4570. Informational Systems Design/(3).F;SS.

A study of the rationale and techniques of analyzing an organization's requirements and the nature of the controls and techniques to translate these decision requirements into a management information system. Prerequisite: ACT 3110.

4580. Taxation II/(3).S;SS.

Corporate income deductions. Topics emphasized include normal tax and surtax, capital gains and losses, net operating loss, reorganizations, contemporary problems in corporate taxation, tax research. Prerequisite: ACT 2110.

4590. Advanced Accounting/(3).F;S.

An examination of the special problems in accounting for the combined corporate entity. Topics emphasized include partnerships, home office and branch, foreign operations and consolidations. Prerequisite: ACT 3110.

4810. Seminar in Accounting/(3). On demand.

5190. Administrative Controls/(3). S;SS.

An examination of the planning and control functions, the role of the controller, accounting and communication, responsibility reporting, accounting alternatives and management decisions, performance appraisal, decision models. Prerequisite: ACT 2110 and permission.

5310. Auditing Theory Seminar/(3).S.

History and development of auditing function and audit philosophy. The course methodology is a discussion and evaluation of various contemporary auditing topics. Prerequisite: ACT 3110.

5390. Contemporary Problems in Accounting/(3).S.

A seminar approach to the fringes of contemporary thought. Topics emphasized include cost-benefit analysis and the environment, social accounting, managerial auditing, human asset accounting, behavioral sciences and accounting, independence and the development of accounting principles, quantitative models and accounting, communication theory and accounting. Prerequisite: ACT 3110.

5500. Independent Study/(1-4).F;S;SS.

5530. Selected Topics/(1-3). On demand.

Finance

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3680. Principles of Finance I/(3). F;S;SS.

Study of the financial function of the business enterprise with special emphasis on capital budgeting and the rate of return. Sources and uses of funds included with study conducted from the standpoint of the financial manager. Prerequisites: ECO 2010-2020-2030, ACT 2100-2110.

3690. Principles of Finance II/(3). F;S;SS.

Study of financial functions of a business enterprise with special emphasis on cost of capital. Long-term financing included with study conducted from the standpoint of the financial manager. Prerequisite: FIN 3680.

4250. Intermediate Financial Theory/(3).F.

An in-depth study of the policy, theory, and problems of financial planning for working capital, capital structure, and for long term decision making under uncertainty. Quantitative models used in financial decision making will be included. Prerequisite: FIN 3690.

4300. Capital Markets/(3).S.

A study of the institution through which long-term funds are channeled into the several markets. Focus is on the demand for funds in the markets, the analyzation of resulting yields, and their effect on capital formation. Prerequisite: FIN 3690.

4620. Investment Management/(3). F;S;SS.

A survey of investment media and investment goals, with emphasis upon their economic effects and relationships to the private investor. A blend of the fundamental and technical approaches is used for investment decision making. Prerequisite: FIN 3680.

5010. Managerial Finance/(3).F;SS.

An intensive study of the instruments and procedures of managerial finance. A readings and case approach is used to encourage students to apply financial models and integrate disciplines. Prerequisite: FIN 3680.

Department of Business Administration

Daniel Rountree, Acting Chairman

The objective of the Department of Business Administration is to develop responsible and successful business leaders by providing undergraduate and graduate training in the fields of management, marketing, and life insurance/real estate.

A Bachelor of Science in Business Administration degree with a major in management, marketing, or life insurance and real estate may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree:

Major in Management

BA 3700	Organization Theory	3 s.h.
BA 4600	Personnel Administration	3 s.h.
BA 4650	Production and Operations Management	3 s.h.

Major in Marketing

BA 3250	Business Promotion-Advertising/Personal Selling	3 s.h.
BA 4230	Distribution and Transportation Management	3 s.h.
BA 4250	Marketing Research	3 s.h.
BA 4610	Consumer Behavior	3 s.h.

Major in Insurance and Real Estate

BA 3800	General Insurance	3 s.h.
BA 4800	Life Insurance	3 s.h.
BA 4820	Property and Casualty Insurance	3 s.h.
BA 4850	Real Estate	3 s.h.
BA 4860	Real Estate Law	3 s.h.

In addition to the above requirements, each management, marketing, or life insurance major must complete a minimum of 18, 15, or 12 semester hours respectively in College of Business courses numbered 3000 or above. Majors in the above areas are advised to use their elective hours in mathematics, statistics, finance, economic theory, additional marketing and management courses, and accounting. An internship may be elected to provide practical experience, with academic credit in the field of specialization. A minor in business administration may be obtained by completing BA 3050 or BA 3150 and eight or nine respectively, additional hours of electives in business administration. A maximum of three business administration elective hours may be taken in either accounting and finance or economics.

Individually Designed Major

Any student, in consultation with an advisor and with the permission of the Dean's Office, can contract to pursue an individually designed major within the BSBA program. The program of study will focus on courses selected to fit the student's particular career objectives. Some examples are: athletic administration, personnel management, commercial law, tourist and recreational management, management information systems, health care management, motel-hotel management, transportation, and countless other fields of specialization. Such a program will constitute a contract between the student and the College of Business and must be formulated at least one academic year prior to expected graduation.

An individually designed major, leading to the Bachelor of Science in Business Administration degree, may be obtained by completion of the College of Business core and a minimum of 26 additional semester hours numbered 3000 or above contracted individually with the College of Business.

Office of Health Care Management

Established in 1972 as a division of the Dean's Office in the College of Business, the Office of Health Care Management assists in planning and coordinating major programs of study in the management of health care delivery systems. In consultation with an advisor, the student may select an individually designed, interdisciplinary major leading to the Bachelor of Science in Business Administration degree consisting of course work both inside and outside the College of Business which will prepare him for meaningful employment in the health field of his choice. Programs may be planned leading to careers in hospitals, clinics, nursing homes, public health, health insurance companies, government, and other health-related organizations and services.

Courses of Instruction in Business Administration

(For a description of the notation used in the following list of courses, see page 42.)

1050. Elements of American Business/(2).F;S;SS.

The relationship and responsibility of business to its economic, social, and political environment. Available to freshmen only.

2500. Independent Study/(1-4).F;S;SS.

3050. Principles of Marketing/(3). F;S;SS.

An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix; the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. Prerequisite: ECO 2020.

3100. Introduction to Health Care Organizations/(3).F;S.

An examination of the basic principles of health care administration in a variety of health facility settings with concentration on internal departmental relationships. The role of the health care administrator in both the organization and the community will be emphasized.

3150. Principles of Management/(2). F;S;SS.

An integrated and analytical study of the functions of business, with emphasis on management, organization, ownership, and operation. Prerequisite: Junior standing.

3250. Business Promotion—Advertising/Personal Selling/(3).F;S;SS.

The basic principles of the advertising and salesmanship functions in the overall marketing plan of the firm. Theory rather than application is stressed.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3600. Human Relations—Communications/(2).F;S;SS.

An examination of the problems related to the proper use of human resources in business. An analysis of current trends in personnel practices and administrative human relations. Prerequisite: BA 3150.

3700. Organization Theory/(3).F;S;SS.

Analysis and design of organization structure. Emphasis is also placed on the behavioral aspects of the employers' position in the management environment and the environmental factors affecting the administrative duties of the management team. The course involves substantial case analysis in describing and resolving various organizational problems. Prerequisite: BA 3150 or BA 3600.

3800. General Insurance/(3).F;S;SS.

Basic theory of insurance, statistical background, organizations, practical applications and regulations. Includes more emphasis in social insurance, finance of insurance companies and pricing.

4210. Retail Management/(3).F;S;SS.

Focus is on operational problems, retail store organization, location analysis, buying, selling, sales promotion, service and merchandise handling. Case analysis of managerial problems in retailing establishments. Prerequisite: BA 3050.

4220. Sales Management/(3).S.

Management of sales force: Quantitative techniques and behavioral research applied to planning, organizing, directing, and controlling field sales effort. Prerequisite: BA 3050.

4230. Distribution and Transportation Management/(3).F;S;SS.

An analysis of the subsystems of physical distribution including transportation, warehousing, inventory control, material handling, industrial

packaging, order processing, and location analysis. Prerequisite: BA 3050.

4250. Marketing Research/(3).F;S.

Techniques involved in the collection, tabulation, and analysis of marketing information. The analysis will include experimental design, factorial analysis, and regression analysis. Prerequisites: BA 3050, ECO 3750.

4350. Methodology of Health Care Management/(2).F.

Application of basic business related principles to the health care environment. Specific topics covered include personnel, law, financial management, and purchasing for health care institutions. Prerequisites: BA 3100 or permission of instructor.

4580. Internship/(6).F;S;SS.

A full-time work experience in industry. (By permission only.)

4600. Personnel and Labor Relations/(3).F;S;SS.

This course involves two segments of information. First it deals with practices and procedures in establishing effective labor management relations. Second, it involves a survey of the basic personnel practices, objectives, functions, and organization of personnel programs. Emphasis on job evaluation, selection and placement education, training, safety and health, and employee relationships. Prerequisite: BA 3150.

4610. Consumer Behavior/(3).F;S;SS.

An in-depth examination of the psychological, sociological, and economic theories of buyer behavior. This is followed by analysis of the major current and classical empirical research studies designed to test the different theories of buyer behavior. Prerequisite: BA 3050.

4650. Production and Operations Management/(3).F;S;SS.

A study of production and operations management utilizing operations research methods as an aid to decision making. Areas of analysis include production and inventory models, forecasting, decision making using expected monetary values, simplex linear programming, queuing theory, gaming theory, and PERT models. Prerequisites: BA 3150, 3750.

4750. Business Policy/(3).F;S;SS.

Comprehensive analysis of administrative policy making from a total organization point of view; use of case analysis and simulation to develop integrative decision skills. Prerequisite: Senior standing.

4770. Social Responsibilities of Management/(3).F;S;SS.

A study of the economic, legal, political, and social environment within which business process takes place; how such environment affects the decision manager must make. Prerequisite: Senior standing.

4780. Problems in Health Care Administration/(2).S.

An advanced seminar for the special study of practical problem situations in the health care environment. Prerequisite: BA 4580 or permission of instructor.

4800. Life and Health Insurance/(3). F;S;SS.

Study of Life Insurance background and practical application of protection, marketing, underwriting, rating and pricing. Also Health Insurance and implications of protection from hospital, accident and sickness insurance. Prerequisites: ECO 2020, BE 2150.

4810. Seminar/(1-3). On demand.

4820. Property and Casualty Insurance/(3).F.

A basic study of the history and development of our property insurance system. The practical use of those coverages are covered in detail. Includes statistics, finances and regulation of this type of insurance in a specific manner.

4850. Real Estate/(3).F;S;SS.

The economics of real estate, legal instruments, marketing, and management are the subjects covered. Includes valuation, appraisal and entrepreneurship. Prerequisites: BE 2150, ECO 2020.

4860. Real Estate Law/(3).F;S;SS.

An investigation of the legal aspects of real estate sales and development. Contracts, leases, state laws are covered. Covers practical cases in these areas. Prerequisite: BE 2150.

5020. Marketing Management/(3).F.

Market-oriented problems of the firm; identification and selection of marketing opportunities; formulation of competitive strategies; marketing policies and programs. Prerequisite: Graduate standing.

5150. Behavioral Application in Business/(2).F;S;SS.

This course aims to give the student practice in applying concepts and techniques useful in solving managerial organizational and human behavior problems. It will highlight current research and theoretical background in social sciences oriented to the solutions of business problems. Prerequisite: Graduate standing.

5160. Applied Personnel Administration/(3).F;S;SS.

Study of problems in a field of personnel management emphasizing development of the ability to analyze problems and to apply management fundamentals to specific behavior problems. Cases supplement lectures for presenting alternative solutions to personnel administrative problems. Prerequisite: Graduate standing.

5500. Independent Study/(1-4).F;S;SS.

5530. Selected Topics/(1-3). On demand.

Department of Business Education and Office Administration

Orus R. Sutton, Chairman

The objectives of the department are (1) to aid students in becoming effective business, economic, and occupational teachers on all educational levels and (2) to prepare students to become efficient office administrators.

Bachelor of Science Degree in Business Education
(with teacher certification)

The requirements for the Bachelor of Science degree in business education are as follows:

General Education and Required Minor in Education	67 s.h.
College of Business Core	28 s.h.
Major Requirements	16 s.h.
Electives in College of Business (3000 level or above)	10 s.h.
Combination/Free	1 s.h.
TOTAL	122 s.h.

The major requirements are Business Education 1020, 1060, 3020, 3030, 4030, 4040, and of courses numbered 3000 and above.

Those who wish to be granted a comprehensive certificate in order to teach shorthand must elect, in lieu of six hours of 3000 level courses in the College of Business, Business Education 2010, 2020 in addition to 3050.

Bachelor of Science Degree in Office Administration

The Bachelor of Science degree in office administration has the following requirements:

Hours taken outside College of Business including General Education	50 s.h.
College of Business Core	28 s.h.
Major Requirements	16 s.h.
Electives in College of Business (3000 level or above)	10 s.h.
TOTAL	122 s.h.

The major requirements are: Business Education 1020, 2020, 3020, 3030, 3040, and 4510.

Minor in Office Administration

A minor in office administration requires 15 hours in office administration courses.

Master of Arts Degree Program

A Master of Arts degree with a major in economics and business and a minor in secondary education and/or junior college education consists of 36 semester hours. These hours include Business Education 5000; a course numbered 5000 or above in economics, marketing, or finance; Business Administration 5150; 15 semester hours from the College of Business, selected with the approval of the graduate advisor; and the appropriate courses in secondary or junior college education.

If a student wishes, he may, by the selection of electives in the College of Business, place emphasis upon (1) accounting and finance, (2) business administration, (3) business education, or (4) economics.

Courses of Instruction in Business Education and Office Administration

(For a description of the notation used in the following list of courses, see page 42.)

1010. Typewriting/(3).F;S.

Keyboard control, technique, simple personal and business letters, tabulation, and manuscripts. Students who have completed one or more units of typewriting in high school may not take this for credit.

1020. Typewriting/(3).F;S.

Increased speed and accuracy in typing different styles of letters, manuscripts, statistical reports, business papers, and production work.

1060. Business Mathematics and Personal Finance/(3).F;S.

An integrated course in which the fundamentals of mathematics are used in the study of managing personal finance. Budgeting, borrowing, investments, insurance, real estate, and stocks and bonds are among the topics covered.

2010. Shorthand/(3).F.

Basic principles of Gregg Shorthand—alphabet, extensive reading, beginning dictation and transcription. Students who have completed one or more units of shorthand in high school may not take this for credit.

2020. Shorthand/(3).S.

Continued study of fundamental principles with emphasis on increased speed and accuracy in dictation and transcription. Five meetings per week—two of which are laboratories.

2150. Law and Society/(3).F;S.

Law and Society is designed to provide students with legal information of a theoretical nature. Beginning with issues that confront people as citizens and businessmen, Law and Society traces the law from its originating objective through its legislation, implementation and interpretation. Legal goals and their impact are discussed in terms of the interrelated needs of the consuming public, labor and management, with special emphasis placed on current social forces that shape business law. Prerequisite: Sophomore standing.

2500. Independent Study/(1-4).F;S;SS.

2660. Introduction to Business Data Processing/(2).F;S.

A survey of computer processes and equipment. The course includes principles of data processing, computer language, and the application and impact of data processing on business.

3020. Business Communications/(2). F;S.

Specialized education and training to develop competence in business communication: effective business letter writing, listening, speaking, and reading.

3030. Office Machines/(3).F;S.

Practice in the use of common office machines.

3050. Advanced Shorthand/(3).F;S.

Further application of shorthand theory developing skill for production of mailable transcripts. Five meetings per week—two of which are laboratories.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3670. Problems in Business Data Processing/(3).F;S.

A study of the problems encountered in the implementation of business systems. The COBOL language is used in order to complete application type programs.

3680. Information Systems Analysis and Design/(3).F;S.

A study of data processing systems to satisfy business systems requirements. The techniques of computer based and non-computer based information systems are included. The design of simulation models as they apply to business and economics is studied.

4010. Business Law/(3).F;S.

This course in business law covers the following areas: Contracts; agency and employment; and commercial paper; personal property; and bailments; and the Uniform Commercial Code as it pertains to these fields. The chief objectives of the course are to prepare students for the C.P.A. examination and to give a businessman enough legal knowledge to know when to seek the advice of an attorney. Prerequisite: BE 2215.

4030. Cooperative Office Education/ (2).F;S.

Actual work in an office. Group conferences to be arranged. (By permission only.) Prerequisite: BE 1020 or equivalent.

4040. Principles of Occupational Business Education/(3).F;S.

A study in the curriculum, current problems and other interrelated factors in vocational business education. (By permission only.)

4510. Office Management/(2).S.

A study of the responsibilities in planning, organizing and controlling business services, systems and procedures in office work and an expansion of the knowledge and techniques used to reduce and control office costs.

4750. Management Science Techniques/(2).S.

A study of the interrelationships between management functions and the data processing environment. The impact of automation upon operations management is included.

4810. Seminar/(3). On demand.

Graduate Courses

5000. Bibliography and Research/(3).F.

A study of bibliographical problems, types of research, and organization and reporting of research. Required in the first semester of all beginning graduate students.

5030. Advanced Business Law/(2).S.

This course in business law deals with current legal problems and how they affect the businessman in his day-to-day dealings in the business world. Students are required to do research in various areas and to give reports. The course deals with legal philosophy and jurisprudence, as well as the evolution of the laws and legal systems. Prerequisite: Graduate standing.

5050. Current Problems in Business Education/(2).F;SS.

Problems in organizing and administering business education programs.

5060. Instruction in the Secretarial Subjects/(2).SS.

Trends and research in the teaching of shorthand, typewriting, and related subjects.

5070. Instruction in the Basic Business Subjects/(2).SS.

Objectives, organization of the curriculum, instructional materials, and methods of instruction of the basic business subject.

5080. Business Report Writing/(2).F.

A study of business report writing required of men and women in their professional careers in business industry, education, and government. Emphasis is on concepts in creative and functional aspects in understanding the problems, gathering and organizing data, and writing reports for management, employees, and the public.

5090. History and Philosophy of Vocational Office Education/(2).SS.

A study of the relationship of the history and philosophy of vocational education to the ideal school curriculum.

5100. Administration and Supervision of Vocational Office Education/(2).SS.

A study of principles, practices, and techniques of organizing and supervising vocational office education programs.

5210. Methods of Developing Economic Concepts/(2).SS.

A study of basic economic concepts and how they can be developed by students of economics and related fields.

5500. Independent Study/(1-4).F;SS.

5505. Master of Arts Thesis/(4).F;S.

5530. Selected Topics/(1-3). On demand.

Department of Economics

J. Paul Combs, Chairman

The objectives of the Department of Economics are to develop an understanding of the theories of economic behavior, both human and institutional; to develop the necessary analytical skills for economic problem

solving; and to acquaint the student with current economic problems and alternative economic policy considerations.

A Bachelor of Science in Business Administration degree (BSBA) with a major in economics has the following requirements:

ECO 3010	Microeconomic Analysis	3 s.h.
ECO 3020	Macroeconomic Analysis	3 s.h.
	Electives in Economics	9 s.h.
	TOTAL	15 s.h.

In addition to these requirements each economics major must complete a minimum of 11 semester hours numbered 3000 or above in the College of Business, as well as the College of Business core courses.

A Bachelor of Science in Business Administration degree (BSBA) with a major in banking and finance has the following requirements:

ECO 3020	Macroeconomics	3 s.h.
FIN 4620	Investment Management	3 s.h.
ECO 3070	Money and Banking	3 s.h.
ECO 4550	Public Finance and Taxation	3 s.h.
FIN 4250	Intermediate Finance Theory	3 s.h.
or		
FIN 4300	Money and Capital Markets	3 s.h.
	TOTAL	15 s.h.

In addition to these requirements each banking and finance major must complete a minimum of 11 semester hours numbered 3000 or above in the College of Business as well as the College of Business core courses.

Bachelor of Arts Degree

The Bachelor of Arts degree is offered in the College of Arts and Sciences in cooperation with the Department of Economics. Students may earn a Bachelor of Arts degree in economics by completing the following requirements in addition to the requirements of the College of Arts and Sciences:

ECO 2010, 2020	Principles of Economics	6 s.h.
ECO 3010	Microeconomic Analysis	3 s.h.
ECO 3020	Macroeconomic Analysis	3 s.h.
ECO 3750	Business and Economic Statistics	4 s.h.
	Electives in Economics	9 s.h.
	TOTAL	25 s.h.

Minor in Economics

A minor in economics leading to a baccalaureate degree consists of Economics 2010, 2020, 3010, 3020, and three semester hours of economics electives.

Economics For Social Science Major

For the curriculum for a major in social science and concentration in economics leading to the Bachelor of Science degree and teacher certification, see page 140.

Courses of Instruction in Economics

(For a description of the notation used in the following list of courses, see page 42.)

2010-2020. Principles of Economics/(3-3).F-S-SS.

A study of the present day economics system; demand and supply, prices and costs; wages, rent, interest and profit; business cycles; money, banking, and the Federal Reserve System; international trade; and a comparison of Capitalism, Socialism, Communism, and Facism.

2500. Independent Study/(1-4).F;S;SS.

3010. Microeconomic Analysis/(3).F;S.

An intermediate course in economic theory with emphasis on the theory of consumer behavior, price theory and resource allocation. Prerequisites: ECO 2010, 2020.

3020. Macroeconomic Analysis/(3).F;S.

An analysis of the nation's income, output, employment, and general price level. Prerequisites: ECO 2010, 2020.

3030. Labor Economics/(3).S.

Position of the laborer and some of his problems in our industrial society. Prerequisites: ECO 2010, 2020.

3070. Money and Banking/(3).S.

How money and credit instruments are issued and secured, structure and effects of commercial banking and the Federal Reserve System, impact on monetary and fiscal policy. Prerequisites: ECO 2010, 2020.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3750. Business and Economic Statistics/(4).F;S;SS.

A study of statistical tools used to analyze business and economic problems. The major subject matter includes descriptive statistics, decision making under uncertainty, statistical comparison of production and marketing methods and products, quality control, and the estimation of linear supply and demand functions. Prerequisites: MAT 1030 or equivalent, ECO 2010, 2020.

4050. International Economics/(3).F.

International trade and the theory of comparative advantage are studied. Special attention is given to free world trade, the economic development in other countries, and to groupings as in the European Economic Community. History and problems of United States foreign trade policy are discussed. Prerequisites: ECO 2010, 2020.

4550. Public Finance and Taxation/(3).F.

Government revenues, expenditures, budgets, and financing taxes; shifting and incidence of taxation, public debts and economic effects of government monetary and fiscal policies. Prerequisites: ECO 2010, 2020.

4600. Economics of Education/(3).S.

An application of capital theory to the study of human resource development, with particular emphasis on the formal education process. The rates of return

to investment in formal education at the elementary, secondary, and college levels are studied. Economic objectives of formal education are viewed from the standpoint of returns to the individual and to society. Prerequisites: ECO 2010, 2020, 3010, or Senior/Graduate Standing.

4710. Managerial Economics/(3).F;S.

An application of statistical and mathematical concepts to solving problems in economics. Includes optimizing techniques such as the Lagrangean multiplier and linear programming. Material covered will also include empirically measured demand, production, and cost functions as well as business pricing practices. Prerequisites: ECO 2010, 2020, 3750.

4750. Econometrics/(3).S.

Identification, measurement, and interpretation of demand, production, cost, and consumption relationships. Simple and multiple regression will be applied to time series and cross sectional data. Prerequisite: ECO 3750 or equivalent.

4800. Urban and Regional Development/(3).F.

An examination of the institutional background necessary for urban and regional growth. An introduction to theoretical models of growth. Prerequisites: ECO 2010, 2020.

4810. Seminar in Economics/(1-4). On demand.

5160. Economic Analysis/(3).F.

Basically a microeconomic analysis of problems in Price Theory, Distribution, and the Allocation of Resources. Both governmental and firm policy implications are discussed. In addition, in the macro area, the Keynesian model is compared with Patinkin's General Equilibrium model. A short term paper is required. (By permission instructor.)

5180. Advanced Macro-Theory/(3).S.

A rigorous review of the literature in aggregate economic theory with special reference to the prediction of economic activity and policy formulation. Monetary and fiscal policy will receive special attention. Prerequisites: ECO 3020, 3070.

5200. Advanced Micro-Theory/(3).F.

A rigorous treatment of the theory of the firm under alternative competitive conditions. Prerequisite: ECO 3010.

5500. Independent Study/(1-4).F;S;SS.

5600. History of Economic Thought/(3).S.

Origin, development, and meaning of current conflicts in economic theory. A study of mercantilist, classical, neoclassical, and Keynesian economics. Prerequisites: ECO 2010, 2020.

5530. Selected Topics/(1-3). On demand.

The College of Education

Joseph C. Logan, Dean
J. Edward Harrill, Associate Dean
Kenneth D. Jenkins, Assistant Dean

The College of Education has primary responsibility for the preparation of elementary teachers, secondary teachers, teachers in special subject areas, media coordinators, reading specialists, supervisors, audiovisual directors, counselors, teachers for higher education, and administrators for the public schools and institutions of higher education.

Departments

The College of Education consists of the Department of Administration, Supervision and Higher Education; the Department of Counselor Education and Research; the Department of Educational Media; the Department of Elementary Education; the Department of Reading Education; and the Department of Secondary Education.

The College of Education offers the Bachelor of Science degree with teacher certification in the fields of elementary education (K-3 or 4-9) and library science. The Bachelor of Science degree with teacher certification (K-12) may be earned in art, emotional disturbance, health education, library science, mental retardation, physical education and secondary special education. The Bachelor of Music degree with K-12 teacher certification is available in music. The Division of Human Resources offers through the College of Education a Bachelor of Science degree in habilitative science. This is a nonteaching, nonteacher-certification program. The Bachelor of Science degree with teacher certification (7-12) may be earned in: biology; chemistry; economics and business; English; French; history; home economics education; industrial arts; mathematics; physics; Spanish; secondary special education; speech; science with concentration in biology, chemistry, earth science, or physics; social science with concentration in geography, political science, sociology and anthropology, or economics.

The College of Education administers programs leading to the Bachelor of Technology degree. These programs are for graduates of technical institutes and community colleges who desire careers in business or teaching in technical institutes and community colleges.

Bachelor of Science Degree
(with teacher certification)

To earn the Bachelor of Science degree with teacher certification, it is necessary that the following requirements be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.

2. Completion of the general education requirements.

3. Demonstration of proficiency in reading, speech, and written English.

4. Completion of a major consisting of 24 to 56 semester hours from one of the fields listed below:

Art	Mathematics
Biology	Mental Retardation
Chemistry	Physics
Economics and Business	Secondary Special Education
Elementary Education	Science, with concentration in Biology, Chemistry, Earth Science, or Physics
Emotional Disturbance	
English	
French	Social Science, general or with concentration in Geography, Political Science, Sociology and Anthropology, or Economics
Habilitative Science	
Health and Physical Education	
Health Education	
History	
Home Economics Education	Spanish
Industrial Arts	Speech
Library Science	

A student must have at least a 2.00 grade-point average on all work in the major. A transfer student must complete at least eight semester hours of work in his major at Appalachian and have at least a 2.00 grade-point average on all work at Appalachian in the major. With the exception of the science and social science majors, specific requirements for each major preface the list of courses offered by the department. Requirements for the interdepartmental majors of science and social science are given on pages 146 and 147.

5. Completion of professional education requirements as follows:

Elementary Education 3010, 3110, 3120 or Secondary Education 3040, 3050	6 or 9	s.h.*
Psychology 3301, 3302	6	s.h.
Methods course or courses	2 - 6	s.h.*
Elementary Education 4050 or Secondary Education 4070	9	s.h.

A grade of "C" or higher must be made in each professional education course.

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* Additional courses in education are required for elementary education majors. See the statement on the requirements for this major, page . .

6. Electives to complete 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning settlement of all expense accounts and satisfactory citizenship.
9. Recommendation of the faculty.
10. Take the Common Examination and the Teaching Area Examination, if available in his field, of the National Teacher Examinations. (No minimal score is required by the university, but the student should be aware of any state requirements.)

Meeting graduation requirements is the responsibility of the student.

Bachelor of Technology Degree

The Bachelor of Technology degree is offered for graduates of technical institutes and community colleges. To be eligible for consideration for admission to this program, one must hold the Associate in Applied Science degree, or its equivalent in a Business or Engineering Technology program from a technical institute or community college.

Applicants must submit (1) evidence that they have mastered the basic technical skills in their areas, (2) an endorsement by the occupational director or dean of the community college or technical institute, and (3) a statement from the president of the institute or community college that they are persons whose mastery of skills and personal qualifications are such that they might reasonably be expected to become successful teachers of technical or vocational subjects. Applications should be directed to the Director of Admissions, Appalachian State University.

To earn the Bachelor of Technology degree, it is necessary that the following requirements be met:

1. Completion of at least 60 semester hours at Appalachian with a grade-point average of at least 2.00 to be completed after admission to the Bachelor of Technology Program.
2. In no case will transfer credit be given for more than 62 semester hours.
3. Required areas will include 21 hours of general education, 14 hours of professional education, a 10 hour teaching internship, 12 hours in the area of specialization and eight hours in electives (unless the student has satisfied the six hour natural science requirement, in which case three semester hours are required). The areas of specialization include Industrial Arts Technology, Business Technology, Horticulture Technology, Marine Biology Technology, Chemical Laboratory Technology, Nursing Technology and Medical Laboratory Technology.
4. To earn the Bachelor of Technology degree the student must demonstrate a proficiency in reading, speech, and written English. He is also

required to take the Common Examination and the Area Examination of the National Teacher Examination.

Meeting graduation requirements is the responsibility of the student.

Procedure for Applying to the College of Education and Teacher Education Program

1. Upon completion of general college requirements the student's check sheet will be transferred from the General College to the chairman of his proposed academic department and professional department.
2. The chairman of the academic department will be responsible for processing the application for admission into the department.
3. The student will be notified of his academic department acceptance (or rejection) and asked to complete an application form for entry into the College of Education. The application must be completed and returned to the appropriate department in the College of Education.
4. Transfer students will follow the procedures above.

Admission to the College of Education and to the Teacher Education Program

To be admitted to the College of Education and to the teacher education program a student must have:

1. Completed at least 60 semester hours.
2. A grade-point average of at least 2.20 (a grade-point average of at least 2.0 must be maintained thereafter). This policy is to be implemented with the beginning of the 1976 Fall Semester.
3. Completed all general education requirements.
4. Demonstrated proficiency in reading, speech, and written English.
5. Been accepted by a department as a major in that department.
6. A recommendation from the chairman of the department in which the student is majoring and for secondary education majors, acceptance by the chairman of the Department of Secondary Education.

Upon admission to the program the student will complete a Personality Inventory which will be used for counseling purposes only.

Advisement

Advisement for teacher education students is available through the office of the Dean of the College of Education and in each instructional department. Complete advisement information may be secured from the office of the Dean of the College of Education, Room 200, Edwin Duncan Hall. Advisement is not compulsory, but each student is urged to utilize avail-

able advisement services and to do so immediately upon his decision to become a teacher.

Proficiency Requirements

All students who are candidates for teacher certification must pass proficiency tests in reading, speech, and written English. These tests should be taken during the freshman and/or sophomore years. Transfer students in teacher education also must pass these tests. Only students who have completed their proficiencies will be allowed to enroll in student teaching.

Student Teaching

During the last or next to last semester, each student who is taking a program leading to teacher certification will student teach for one semester in the area and at the level for which he has been preparing. This work will consist of full-time teaching under the guidance of a competent and experienced teacher. Student teaching provides the student professional laboratory experience in the same activities in which the regular teacher engages. In addition to the regular classroom teaching activities, the student will concurrently enroll in Psychology 3301 and Secondary Education 3050 or Elementary Education 3110.

Students will be notified in advance concerning the semester and location in which they will student teach. Student teaching assignments in off-campus schools will conform to the local schedule with reference to the Thanksgiving, Christmas, and Easter holidays. No student teaching will be permitted during the summer.

Special field experience programs may be available during the sophomore, junior and senior years. Information may be obtained from the department chairmen of the College of Education.

Conditions Prerequisite to Student Teaching

The following requirements must be met prior to student teaching:

1. All proficiencies and professional education courses (except those taught concurrently with student teaching) must have been completed satisfactorily.

2. Assignment for student teaching will be made by the Field Relations Office as follows:

   Fall Semester by May 1
   Spring Semester by November 15
   Student teaching will not be permitted during the summer

   Clearance forms may be secured by the student from the Field Relations Office to meet the above deadlines.

3. A student who has completed all prerequisites for student teaching will be unconditionally placed. Others may be tentatively placed until all prerequisites have been satisfied. *However, no student will be permitted to student teach unless all prerequisites have been satisfied.*

4. Elementary, Primary (K-3) or Kindergarten majors—A student must have the approval of the chairman of the Department of Elementary Education. Prior to student teaching, elementary majors must have completed Elementary Education 3120, Reading Education 3100 (for the primary major only), Elementary Education 4010 or 4020, and 4030, Psychology 3302 and General Science 4401. Psychology 3301 and Elementary Education 3110 will be taken concurrent with student teaching.

5. Secondary majors—A student must have the approval of the chairman of the Department of Secondary Education and the chairman of his academic department. Prior to student teaching, secondary majors must have completed Secondary Education 3040, the required methods course, and Psychology 3302. Psychology 3301 and Secondary Education 3050 will be taken concurrent with student teaching.

6. A student may qualify under either the elementary or secondary requirements, if he is a major in a special subject (art, emotional disturbance, health education, library science, mental retardation, music, physical education, secondary special education) leading to K-12 teacher certification.

7. Each applicant must agree to student teach full time for one semester.

Teacher Certification

All Appalachian State University teacher education programs have received appropriate approval by the State Department of Public Instruction and lead to North Carolina teacher certification. For a regular Class A Certificate in North Carolina, a candidate must meet National Teacher Examination requirements as established by the State Department of Public Instruction. Other certification requirements are satisfied by successful completion of the Appalachian State University teacher education program.

A person who is a college graduate with a nonteaching degree or who wishes to certify in a second teaching area and who desires to receive teacher certification from Appalachian State University will indicate this in writing to the Dean of the College of Education prior to arrival on campus. At the same time, he will indicate the area and level in which he desires certification and will send complete transcripts of all previous college study. No certification commitments will be made by the university until transcripts have been received and reviewed by the chairman of the involved academic department (where applicable) and the appropriate chairman in the College of Education. A person seeking such certification

may expect to meet the same certification requirements and demonstrate proficiencies required of regular Appalachian State University students seeking similar certification.

Interdepartmental Majors Leading to Teacher Certification

Curriculum in Science

A major in science leading to the Bachelor of Science degree and teacher certification must include Mathematics 1020 and 1110 or Mathematics 1110 and 1120; Biology 1101-1102; two of the following three sequences: Chemistry 1101-1102, Physics 1101-1102 or 1150-1151; Geology 1000-1001; plus a concentration in one of the areas below:

A concentration in biology includes Biology 2201-2202, 2204-2205, 3301, 3308, 4554, and 4555; Chemistry 1101-1102; Physics 1101-1102.

A concentration in chemistry includes Chemistry 1101-1102, 2201, 2210, 3301, 3303, 3404, and seven semester hours selected from other chemistry courses above the 1000 level; Mathematics 1110 and 1120 and Physics 1101-1102 or 1150-1151.

A concentration in physics includes Physics 2010, 2020, 2150, 3210, 4210, and eight hours of electives in physics; Chemistry 1101-1102 and Mathematics 1110, 1120, 2130, and 3130.

A concentration in earth science includes Geography 2300, 3100, 3110; Geology 2000, 3000, 3001, 3003, 3005, 4600, and 4601; Chemistry 1101-1102 or Physics 1101-1102, 2150.

Curriculum in Social Science (Undergraduate)

A major in social science leading to the Bachelor of Science degree and teacher certification consists of 63 semester hours in social science including general education requirements in social science. This must include a core (54 semester hours) consisting of Anthropology 1210 and 2215; Economics 2010 and 2020; Geography 1010, 1020, two semester hours from 3010-3034, and 4200; History 1101, 1102, six semester hours from 2201-2212, 2215, and 2599; Political Science 1100, 2130, and 3240; Sociology 1120 and 2201; and a concentration of nine additional semester hours in one of the above areas. In addition the social science major must complete Mathematics 3810 (student concentrating in economics may complete either Mathematics 3810 or Economics 3750 but cannot count both towards the major) and Religion 1100 or 1200. A student majoring in social science should select Mathematics 1020 to satisfy the mathematics requirement in general education.

A concentration in anthropology for the social science major must include nine semester hours in anthropology chosen in consultation with the departmental advisor.

A concentration in economics for the social science major must include Economics 3010, 3020, and three additional semester hours in economics numbered 3000 or above.

A concentration in geography for the social science major must include Geography 2100, 2400, 3010, and 4250. If Geography 3010 is taken in the core, the student must include two semester hours from the sequence numbered 3020-3034 in his concentration.

A concentration in history for the social science major must include nine semester hours in history chosen in consultation with the departmental advisor.

A concentration in political science for the social science major must include one three semester hour course from each of the three following groups:

(A) 3150, 3230, 4230; (B) 2110, 3110, 3210, 4310; (C) 3330, 4170, 4270, 4550.

A concentration in sociology for the social science major must include nine semester hours in sociology chosen in consultation with the departmental advisor.

Curriculum in Social Science (Graduate)

I. The Master of Arts Degree for Secondary School Teaching

Prerequisites: An undergraduate major in the teaching field; a North Carolina A Certificate or its equivalent in another state.

The Master of Arts degree with a multidisciplinary major in social science for secondary school teaching requires:

1. The following courses in education and psychology

CR	4560	Measurement and Assessment	2 s.h.
AH	5060	Curriculum Planning	2 s.h.
AH	5470	Social Foundations of Education	2 s.h.
or AH	5350	Philosophy of Education	
PSY	4555	Advanced Educational Psychology	2 s.h.
or PSY	5565	Adolescent Psychology	

2. Twenty-two to 28 semester hours in the social sciences (anthropology, economics, geography, history, political science, and sociology) distributed as follows:

With Thesis (22 semester hours):

a. A concentration of 14 semester hours in one of the social science disciplines, including 5000, Bibliography and Research (2) and 5505, Master of Arts Thesis (4).

b. Six semester hours selected from *two* additional social science disciplines.

c. History 5450, History and Social Studies Education (2).

Without Thesis (28 semester hours)

a. A concentration of 14 semester hours in one of the social science disciplines including 5000, Bibliography and Research (2).

b. Twelve semester hours selected from *two* additional social science disciplines.

c. History 5450, History and Social Studies Education (2).

The student will work out his program of study in consultation with his advisor.

II. The Master of Arts degree for community/junior college teaching
Prerequisite: An undergraduate major in the teaching field.

The Master of Arts degree with a multidisciplinary major in social science for community/junior college teaching requires:

1. The following courses in education

AH 5420	The Community/Junior College and Technical Institute	2 s.h.
AH 5440	Instruction in Post-Secondary Institutions	2 s.h.

2. Twenty-six to 32 semester hours in the social sciences (anthropology, economics, geography, history, political science, and sociology) distributed as follows:

With Thesis (26 semester hours)

a. A concentration of 18 semester hours in one of the social science disciplines, including 5000, Bibliography and Research (2) and 5505, Master of Arts Thesis (4).

b. Eight semester hours from another social science discipline.

Without Thesis (32 semester hours)

a. A concentration of 22-24 semester hours, including 5508; Bibliography and Research (2), in one of the social science disciplines.

b. Eight to 10 semester hours in another social science discipline.

The student will work out his program of study in consultation with his advisor.

Department of Administration, Supervision and Higher Education

Alvin R. Hooks, Chairman

The Department of Administration, Supervision and Higher Education is responsible for organizing and providing instructional programs leading to certification of personnel for administrative and supervisory positions

in education, organizing and providing related courses, programs, and services designed to meet the needs of administrative and supervisory personnel in elementary and secondary schools and in higher education, and organizing and providing programs and services designed in cooperation with schools or other agencies relating to any areas of improvement and progress in educational institutions. The department also provides advisory and administrative services essential to the effectiveness of its program.

Master of Arts degress are offered in several areas of the two-year college programs in public school administration and supervision. The Specialist in Education degree is offered in educational leadership and higher education. The areas of concentration in the specialist's degree are administration, curriculum and instruction, reading, educational media, counselor education, developmental studies, adult education, supervision of special education and teaching.

Courses of Instruction in Administration, Supervision and Higher Education

(For a description of the notation used in the following list of courses, see page 42.)

Administration and Supervision

Graduate Courses

5010. Public School Administration/(3). F;SS.

An introductory study of basic structure, organization, and administration of American public education.

5020. The Secondary School/(3).F;SS.

A study of the organization of the secondary school, its administration, curriculum, and recent trends.

5040. The Elementary School/(3).F;SS.

A study of the organization of the elementary school with emphasis on its administration, curriculum, and recent trends.

5050. Supervision of Instruction/(2-3). S;SS.

A study of the nature and function of supervision, recent trends, teacher involvement in policy formation, the organization and techniques used in supervision.

5060. Curriculum Planning/(2).F;S;SS.

A study of principles, effective practices, and techniques appropriate for overall curriculum planning.

5120. The Middle/Junior High School/(3).F;SS.

A study of the middle school and junior high school with emphasis on its administration, curriculum, and recent trends.

5250. Conflict Management in Educational Administration/(3).F;S.

Sources of conflict for the administrator are analyzed including communications and professional negotiations. Emphasis is placed on basic problem-solving techniques.

5350. Philosophy of Education/(2). F;S;SS.

A study of philosophies and their effects on education. Current educational issues and decisions are analyzed from the philosophical bases which may underlie them.

5470. Social Foundations of Education/(2).F;SS.

The purpose of the course is to acquaint students with the role of the school in relation to its social setting.

5500. Independent Study/(1-4).F;S;SS.

Subject matter may vary depending on student interest and need. A student may enroll more than once provided the content does not duplicate that of the previous course.

5530. Selected Topics/(1-3). On demand.

5500. School Law/(3).F;SS.

A study of the fundamental principles underlying the relationship of the state to education and the laws which are applicable to practical problems of school organization and administration.

5700. Educational Leadership/(2-3). F;S;SS.

A study of the process of leadership with activities designed to improve skill in planning, decision-making, organizing, communicating, and evaluating. Research on leadership and the processes of implementing change will be analyzed.

6180. School Finance/(3).F;SS.

A study of the principles which contribute to an understanding of public school finance. Emphasis is placed on budget making, fiscal management, and business operations.

6250. Problems in School Administration/(3).F;S.

A field study of the current problems related to the organization and administration of the total school program.

6490. School Facilities/(3).S;SS.

Emphasis is placed upon educational planning of the modern school plant and the renovation and utilization of existing facilities.

6530. Selected Topics/(1-3). On demand.

Topics to be considered include the following: Seminar in Educational Leadership; Seminar in Legal Problems in Education, and Seminar in College Administration.

6850. Computer Application in Education/(2).F;S.

A study of the use of the computer in instruction and in school administration.

Higher Education

3060. The Technical Institute/(2).F;SS.

A background in the philosophy, goals, and purposes of vocational and technical programs in post-secondary institutions. Emphasis is placed on the role of the technical institute.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4960. Internship in Occupational Programs/(5-10).F;S;SS.

A full-time teaching internship for one semester under the supervision of experienced personnel in a community college or technical institute, combined with a study of effective methods of teaching vocational and technical subjects.

4970. Seminar in Occupational Instruction/(2).S.

Combines a study of philosophy, goals and purposes of vocational and technical programs with discussion and analysis of the problems, research and recent trends in the technical institute.

Graduate Courses

5420. The Community/Junior College and the Technical Institute/(2-3). F;S;SS.

An analysis of the two-year institution. Emphasis is given to a study of characteristics and roles of personnel and programs within the various types of public and private community/junior colleges and technical institutes.

5430. Organization and Administration of the Community/Junior College and Technical Institute/(3).F;SS.

A study of the various types of two-year institutions and how they are administered at the state and local

levels. Emphasis is placed on North Carolina's community colleges and technical institutes.

5440. Instruction in Post-Secondary Institutions/(2).F;S;SS.

A study of various theories of instruction with emphasis on the merger of theory and practice in the development of learning strategies for higher education.

5450. Seminar on the Community/Junior College/(2).F;S;SS.

Discussion and analysis of the problems, research and recent trends in the community/junior college.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

5630. The Adult Learner/(3).F;SS.

A study of the characteristics of adults as learners. Special attention is given to a review of research on adult learning and to the role of the adult educator as a facilitator in the learning process.

5810. Program Planning in Adult and Community College Education/(3). F;SS.

The principles and processes involved in programming, including basic theories and concepts supporting the programming process. Consideration will be given to determining needs for specific training in a community and developing programs appropriate to meet those needs.

5840. College Finance and Business Administration/(3).F;S;SS.

A study of financial and business management principles as related to higher education. Emphasis is given to sources of funds, budgeting, purchasing, and financial accountability in higher education.

5890. Developmental Studies in Post-Secondary Institutions/(3).F;SS.

A study of the role of developmental studies programs in the community/junior college. Special emphasis is given to characteristics of students and approaches to instruction.

6500. Independent Study/(1-4).F;S;SS.

6530. Selected Topics/(1-3). On demand.

6630. Seminar on the Adult Learner/(2).S.

This course provides opportunities for students to examine in depth current issues and problems associated with the adult learner. The applicability of relevant principles and pertinent research findings to adult learning will be investigated.

6740. Internship/Field Experience/(2-8).F;S;SS.

Supervised experiences of leadership and management under the direction of competent personnel or study of problems in a school, school system, or other appropriate agencies.

6840. The General Education Program for Higher Education/(2).S;SS.

An overview of general education and its place in post-secondary education. Emphasis is given to building on earlier educational experiences in constructing a viable college general education program.

6860. Higher Education in America/(3).F.

Historical approach to the development of higher education from colonial colleges to the present.

Department of Counselor Education and Research

Fred T. Badders, Chairman

The Department of Counselor Education and Research is responsible for organizing and providing instructional programs in counselor education and educational research. The three programs in counselor education at the graduate level leading to a Master of Arts degree are:

1. Certified School Counselor—designed to meet state certification requirements and to prepare counselors for elementary, middle, and secondary schools. (Prerequisite: an A certificate.)
2. Student Development Specialist—a noncertificate program designed primarily to prepare counselors and other student development specialists who wish to work in a post-secondary educational setting, especially community/junior colleges and technical institutes.
3. Agency Counselor—a noncertificate program to prepare counselors and related "helping" personnel for community agencies (e.g., employment and rehabilitation counseling, mental health center, and pastoral counseling).

The department also provides the courses in education research for the College of Education. These research courses and several of the counselor education courses are valuable for majors in other departments.

A student proposing to major in any of the counselor education programs must be admitted to the Graduate School and/or be advised by the advisors in the Department of Counselor Education and Research prior to taking any courses.

Courses of Instruction in Counselor Education and Research

(For a description of the notation used in the following list of courses, see page 42.)

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

To meet the needs of special interest groups such as Associate of Arts graduates working as paraprofessionals wanting to learn specific areas and skills. May be interdisciplinary in content or methodology.

4560. Measurement and Assessment/(2).F;S;SS.

Basic course for elementary, secondary, and junior college teachers which stresses the construction and use of teacher-made tests.

4600. Educational Statistics/(2).F;S;SS.

A study of the statistical procedures in education.

4780. Theory and Practice of Guidance/(3).F;S;SS.

A study of public school guidance and counseling programs, including methods of guiding students, and purposes, organization, present status, and evaluation of guidance counseling activities.

4790. Group Methods and Processes/(3).F;S;SS.

A study of group dynamics, experimentation in groups, leadership roles, applicability to other settings.

4840. Human Relations and Interaction/(2).F;S;SS.

A course designed as an elective for prospective elementary and secondary teachers, business majors, media specialists, recreation leaders, and others, whose interests lie in applying the most constructive methods of

human relations known. The course will include a review of mental health innovations, self-concept research, the Carkhuff-Truax scales of growth facilitation, and other learning models, creativity, and psychodynamics of the teaching-learning process.

4870. Guidance Services in the Elementary School/(2).F;SS.

Designed primarily for those who are preparing to become counselors at the elementary school. Emphasis is given to philosophy, organization, maintenance and use of records, variety and use of tests, play therapy concepts, consultation with teachers and/or parents.

Graduate Courses

5000. Research in Education/(2).F;S;SS.

A study of the various types of research and the logical organization of research and reporting; required in first semester for person working for Master of Arts degree in any area in education, industrial arts, library science.

5140. Psychological and Education Testing/(3).S;SS.

A study of representative psychological and educational tests/inventories including the rationale which underlies testing. Prerequisite: CR 4600 or permission of the instructor.

5200. Occupational and Educational Information/(3).F;S;SS.

Designed to acquaint teachers and counselors with sources and uses of vocational and educational information.

5220. Counseling Theory and Techniques/(3).F;S;SS.

Designed primarily for counseling majors to emphasize theory and practice of basic counseling models. Prerequisite: CR 4780, or CR 5410 or approval of advisor.

5270. Marital Counseling and Enrichment/(2).S;SS.

An emphasis upon the family as a unit of society which communicates, interacts, and experiences conflicts. A study of the most recent theory, research, and practice of effective types of family communication, interaction, and resolutions to conflict. Prerequisite: CR 5220.

5380. Supervised Practicum in Counseling/(4).F;S;SS.

Practice in the application of counseling techniques. Available primarily for Appalachian State University counseling degree candidates. Setting to be decided upon in consultation with practicum supervisor. Prerequisite: Permission of chairman.

5410. Student Development Functions/(3).F;S;SS.

Designed as a basic course introducing the issues and processes involved in working with college students in a noninstructional capacity. Attention is given to the philosophy, organization, staffing, resources, and functions (admissions, registration, financial aid, health, counseling, co-curricular activities, housing, and placement) which comprise effective student personnel/development programs.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(1-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Subject matter may vary from term to term depending on student interest and need. A student may enroll more than once in a selected topics course provided that the content does not duplicate that of the previous course. Limit of six hours credit.

5800. Internship in Student Development/(4).F;S;SS.

This internship provides an opportunity for on-the-job observation and participation in specific functions of the student personnel/development field. In addition to the opportunity to apply counseling techniques, each intern will be exposed to at least two different student personnel/development functions either on the ASU campus or in area colleges/technical institutes. Open only to Counselor Education majors. Prerequisites: CR 5410 and permission of chairman.

5870. Statistical Applications in Education/(2).F;SS.

Statistical methods and analysis as applied to education. A study of measures of reliability, variability, correlation, central tendency, and problems of sampling.

6000. Seminar Research Design/(1-3). F;S;SS.

The application of research techniques in the investigation of educational problems. This course is of particular value in the definition and design of the research required for advanced graduate degrees.

6500. Independent Study/(1-4).F;S;SS.

6530. Selected Topics/(1-3). On demand.

6700. Individual Behavior/(2).F;SS.

A survey of the literature pertaining to the perceptual approach to the study of the individual's behavior. Efforts will be made to show the applications of this approach to education and counseling.

6710. Human Sexuality/(2).F;SS.

Classical and contemporary theories of sexual identity and behavior, family planning, reproduction, emotionality, intimacy, and values are studied. Special attention is given to the work of Kinsey, Hooker, and Masters and Johnson.

6720. Advanced Group Methods/(2). S;SS.

Intense concentration on theoretical writings and research relevant to group processes, leadership styles and roles, and outcomes. Supervised leadership participation in small groups. Prerequisite: CR 4790.

Department of Educational Media

Jeffery Fletcher, Chairman

The Department of Educational Media offers programs of study at the undergraduate and graduate levels which serve the needs of students to become media coordinators and specialists for professional service in school library/media centers and community college learning resource centers and specialists in audiovisual technology in other agencies.

An undergraduate major is offered in library science leading to the Bachelor of Science degree and certification as an associate media coordinator. The major is comprised of 36 semester hours plus the required professional courses in education. Requirements are Educational Media 3010, 3020, 4060, 4070, 4610 or 4620 or 4630, 4660, 4700, 4730, 4750; Elementary Education 3010 and 3120 or Secondary Education 3040 and 3050; Elementary Education 4050 or Secondary Education 4070; Psychology 3301, 3302; and six semester hours of approved electives.

The undergraduate might choose to follow a liberal arts major and take preprofessional courses in media which will prepare him for entrance in graduate programs of library and information science. For such a student a minor in educational media leading to the Bachelor of Arts degree is available. This minor must include Educational Media 3010 and 3020 and 18 semester hours of electives in media selected in consultation with a departmental advisor.

Graduate programs leading to the Master of Arts and the Specialist in Education degrees are described in the graduate section of the catalog. A student desiring to pursue one of these programs should consult with the chairman and/or faculty advisor.

Courses of Instruction in Educational Media

(For a description of the notation used in the following list of courses, see page 42.)

3010. Introduction to the Media Profession/(3).F;SS.

Professionalism, survey of professional literature, objectives and functions of modern media centers and bases from which they have evolved.

3020. Reference Sources and Services/(3).F;SS.

Evaluation and use of basic reference materials; citation and bibliographic form; techniques and procedures in reference work.

3040. Children's Literature/(4).F;S;SS.

Developing a background in the history of children's literature, evaluating modern writers and illustrators of children's books, and studying the various phases of literature which should be presented to elementary children.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4060. Media for Children/(3).F;SS.

A practical problems approach to using selection aids, reviewing media, professional guidelines, and examination centers to select from a range of possible resources those most appropriate for achieving learning objectives for children. Literature and other art forms, informational, and instructional materials for early childhood and elementary age children will be explored. Role playing in responsible selection policy and procedure determination is required.

4070. Media for Young People/(3).S;SS.

Applied practice in selection, examination, and use of materials and equipment for enrichment and instruction in programs for adolescents and young people. Attention is given to the process in cooperative development of selection policies and procedures and to promotion and interpretation of materials and programs.

4080. Practicum/(2).F;S.

A practicum to provide opportunities to observe and participate in skills procedures in real situations.

4610. Literature of the Humanities/(3). F;SS.

A survey of special foundation reference works, bibliographies, and foundation books in the areas of literature, the arts, philosophy and religion.

4620. Literature of the Social Sciences/(3).S;SS.

A survey of special reference works, bibliographies, and foundation books in the areas of biography, history, travel, and the social sciences.

4630. Literature of Science and Technology/(3).S;SS.

A survey of special reference works, bibliographies, and landmark books in the pure and applied sciences.

4660. Instructional Materials/(2). F;S;SS.

Considers the process of using a wide variety of teaching and learning resources in improving instruction. Emphasizes the location, selection and

evaluation of materials; the role of instructional materials in teaching and learning; preparation and administration of instructional materials.

4700. School Media Center Organization and Services/(4).F;S;SS.

Planning and equipping school media centers; personnel, acquisition, processing, maintenance, circulation of media; records and reports; attendance and scheduling; evaluation of services. Lab work required. Fee.

4730. Beginning Classification and Cataloging/(2).F;S;SS.

Principles of classification and cataloging of materials for small libraries. Preparation of a manual and practice file.

4740. Photography/(2).F;S;SS.

Basic theory, principles and techniques of black and white, and color picture photography.

4750. Audiovisual Instruction/(2). F;S;SS.

An introductory study of a variety of major audiovisual media which encompasses the selection and practical classroom application of materials; laboratory experience in the operation of equipment; and the production of basic visual materials.

4760. Cinematography/(2).S;SS.

Basic theory, principles and techniques of motion picture photography.

4800. Advanced Projects in Educational Media/(3).F;S;SS.

An open format course to allow and encourage students to design, produce, and try out individual advanced projects involving media. Emphasis is placed on individual skill levels, interests, and goals. This course is the logical extension of basic EM skills courses; therefore a prerequisite of one or more of the following courses (or equivalent) is required: EM 4660, Instructional Materials; EM 4740, Photography; EM 4750, Audiovisual Instruction; EM 4760, Cinematography. (Consent of instructor also required.)

Graduate Courses

5010. Media Collection Development/(3).F;SS.

A graduate course intended for media coordinators and other administrators to develop competencies in their leadership roles in faculty activities in evaluation of existing collections, democratic process of realistic commitment to selection policy and process, maintenance and weeding of collections, purchasing practices, and supplementing the collection through cooperative collections and networks. Prerequisite: Introduction to selection and evaluation competencies.

5020. Administration and Supervision of School Media Center System/(2). On demand.

Designed for the experienced school librarian in preparation for supervisory positions in large units of school media service. Involves a critical study and analysis of problems in organization and administration of city, county and state school media systems.

5030. Reading, Viewing, and Listening Guidance/(3).S;SS.

A study of strategies and techniques for use in planning individual and group projects for enhancing and extending skills in using and satisfactions obtained from various media. Case studies of individual reading, viewing, and listening patterns and projects are required.

5040. Advanced Reference and Bibliography/(3).S;SS.

Reference problems, methods, materials and full services for large media centers and two-year college/technical institute learning resource centers. Cooperative media service, national and international bibliography development and automated reference service are included.

5050. Advanced Cataloging and Classification/(2).S;SS.

Analysis of cataloging codes and classification systems with special emphasis on Library of Congress Classification. Special problems. Administration of the cataloging department, centralized

and cooperative cataloging. Current problems and trends.

5070. Books and Printing/(3).F;SS.

The development of books and other records from ancient times to the present. Includes the history of writing materials, the alphabet, manuscripts, printing, illustrating, and modern book production.

5080. Contemporary Libraries and Communities/(3).F;SS.

Service goals of school, public academic, and special libraries with emphasis on the communities they represent. Surveys, networks, public relations, and cooperative planning.

5100. Administration and Organization of the Two-Year College Learning Resource Center/(3).F;SS.

Professional management of personnel, budgeting, programs, facilities, and collections. Leadership factors in developing dynamic services.

5140. Film Guidance and Interpretation for Teachers and Librarians/(2).F;SS.

The study of films as an art form as it applies to the responsibilities of teachers and media specialists in selecting and teaching appreciation of them.

5150. Critical Analysis of Contemporary Children's Literature/(3).S;SS.

An in-depth study of selected works representative of the literary genres of children's literature published since 1950.

5280. Production and Care of Audiovisual Materials/(2).F;SS.

Includes design and use of graphic and photographic production techniques. Prerequisite: EM 4750.

5320. Use and Care of Machines and Equipment/(2).F;SS.

A study of operating techniques of projection and audio devices, cameras, electronic laboratories, teaching machines; preventive maintenance and minor repairs. Prerequisite: EM 4750.

5360. Programmed Instruction and Instructional Design/(2).S;SS.

An introductory course in the design, preparation and validation of programs for instruction; provides laboratory experiences in programmed learning.

5370. Organization and Administration of an Audiovisual Program/(2).S;SS.

Selection and evaluation of materials and equipment, including an analysis of the adequacy and effectiveness of audiovisual programs in school and college systems. Prerequisite: EM 4750.

5400. Seminar/(3).F;S;SS.

5410. Information Science and Computer Applications in Media Centers/(3). S;SS.

Fundamental concepts of computer approaches to media functions in acquisitions, inventory control, statistics, and management analysis. Data banks and information systems, facsimile transmission, microform technologies.

5450. Practicum/(2).F;S;SS.

Practicum in educational media provides an opportunity for students to apply the skills and knowledge competencies they have attained both within and outside the classroom and to gain valuable experience in actual professional work. Systematic information collection provides data base for analytic evaluative report.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Subject matter may vary from term to term depending on student interest and need. A student may enroll more than once in a selected topics course provided that the content does not duplicate that of the previous course.

5540. Television in Instruction/(2).S;SS.

Techniques of using television as a teaching device. Covers production and utilization with emphasis on the use of portable videotape recorder. Survey of programming available to schools from all sources.

5640. Advanced Production of Audio-visual Materials/(2).S;SS.

Continuation of 5280 in breadth and depth. Emphasis on project production for mass distribution. Prerequisites: EM 4750 and 5280.

5820. Organization and Administration of Learning Laboratories/(2).F;SS.

This course is designed to acquaint teachers and administrators with the unique nature of learning laboratories. Particular emphasis will be given to organization and administration of learning laboratories and programmed materials centers in community colleges.

5920. Communications Theory and Media/(2).F;SS.

Examination of communication models and learning theory in the communication and learning processes. Special emphasis on the influences of educational communications in instructional leadership situations.

5930. Instructional Graphics/(4).F;SS.

Basic design principles and concepts as they apply to selection, preparation, and evaluation of graphic material. Course includes laboratory experience in layout, mechanical lettering, coloring, transparency production, and graphic duplicating processes.

6040. Reading and Research in Children's Literature/(3).S;SS.

A seminar which provides for intensive or extensive study for those who have a rich background in study and use of children's literature. Investigations of one or more aspects of children's literature. Review of research studies and scholarly treatments with implications for use of literature with children.

6500. Independent Study/(1-4).F;S;SS.

6530. Selected Topics/(1-3). On demand.

6550. Advanced Seminar in Educational Communication/(2).S.

Individual group study of selected problems. Prerequisite: Basic courses in the field.

6560. Instructional Systems Design/(2).S.

Theory and design of instructional systems. Includes cybernetics, non-computerized program development, task analysis, behavior objectives. Designing and arranging the learning environment.

Department of Elementary Education

Grace G. Lilly, Chairman

The Department of Elementary Education offers undergraduate and graduate courses leading to degrees in early childhood and elementary education. Through its programs of classroom instruction, direct experiences in the classrooms of public schools, and advising, the department prepares students for certification in the various curriculum areas and grade levels in elementary schools. In addition to meeting the minimal requirements for certification, the department maintains programs of instruction, research, and field services for the continuous improvement of curriculum development, educational materials, and methods of teaching.

At the time of entering the College of Education, a major in elementary education or in early childhood *must* make an appointment with an assigned advisor in the department to plan his program.

A student preparing to teach in a special area (art, health and physical education, library science, and music) must complete Elementary Education 3010 (4-9 Section) and 3120 (4-9 Section); or Secondary Education

3040, 3050; Psychology 3301, 3302; methods course or courses in his field of concentration; and Elementary Education 4050.

A student preparing to teach in the 4-9 area of the elementary school must complete the following courses during the junior and senior years: Elementary Education 0200, 3010, 3030, 3110 (4-9 Section), 3120 (4-9 Section), 4020, 4030, 4050; Psychology 3301, 3302; Elementary Education 2020; General Science 4401; Health 1105, 3655; Educational Media 3040; Physical Education 3505; and Music 2021. In addition to the block for the junior and senior years, an elementary major must complete the following courses in the area of specialization: Elementary Education 2000, Physical Science 1001-1002, Biology 1107, Geography 1010, four hours of history chosen from History 2201 through 2212 (to include 2207), Art 2011, Mathematics 1910, Music 2020, Political Science 1100, and an academic concentration from one of the following areas: art, English, French, Spanish, mathematics, music, science, social studies. The hours vary from 10-12 semester hours depending on the area of concentration.

The elementary (4-9) major is required to take the Common Examination and the Elementary Education Examination of the National Teacher Examinations.

A student preparing to teach in the early childhood (K-3) area of the elementary school must complete the following courses in curriculum blocks: Block I: (14 hours to be taken during the first semester of the junior year, after being admitted to the College of Education) Elementary Education 3010, 3120 (K-3 Section), 4030 (K-3 Section), 2020; Reading 3100; and Music 2020. Block II: (10 hours to be taken the second semester of the junior year) Elementary Education 4010, Psychology 3302, Physical Education 3505, and Health 1105. Curriculum Blocks III and IV are interchangeable for Early Childhood majors within the senior year. Block III: (eight hours) Educational Media 3040, General Science 4401, Health 3655. Block IV (15 hours) Elementary Education 4050, Psychology 3301, and Elementary Education 3110 (K-3 Section).

In addition to the four curriculum blocks already listed, the early childhood major must complete Elementary 0200 and the following courses in the area of specialization: Physical Science 1001-1002 (K-3 Section), Biology 1107, Geography 1010, four hours of history chosen from History 2201 through 2212 (to include 2207), Art 2011, Mathematics 1910, Music 2021, Political Science 1100, and an academic spread from the following areas: art, music, English, Spanish, French, mathematics, science, social studies.

The early childhood major is required to take the Common Examination and the Early Childhood Education Examination of the National Teacher Examinations.

The Department of Elementary Education offers graduate courses leading to master's and specialist's degrees in early childhood and elementary education. The master's degree candidates selecting a nonthesis program

must complete 36 semester hours of graduate work. At least 12 semester hours must be in one subject matter field for the elementary certificate and six of the 12 must be in one academic field for those majoring in the early childhood education area. Six hours are for electives.

Those candidates working on the specialist's degree in early childhood and elementary education must complete 30 semester hours of graduate credit beyond the master's degree. This program will include 14 semester hours in professional education, a minimum of 10 semester hours in one or more subject matter fields for the early childhood certificate, and a minimum of 12 semester hours in one field for the certificate, when two fields are involved (e.g., mathematics and science in the 4-9 area), there should be a minimum of 18 semester hours equally divided between the two areas.

I. Elementary School Teachers

CR	5000.	Research in Education	2 s.h.
CE	5460.	Elementary School Curriculum	3 s.h.
or			
AH	5060.	Curriculum Construction	
AH	5470.	Social Foundations of Education	2 s.h.
or			
AH	5350.	Philosophy of Education	
RE	5110.	Reading and the Language Arts	2 s.h.
CE	5130.	Teaching the Language Arts	3 s.h.
PSY	4550.	Advanced Educational Psychology	2 s.h.
MAT	4590.	Foundations of Arithmetic	3 s.h.
Concentration in Academic Fields			12 s.h.
Electives			7 s.h.

II. Early Childhood School Teacher

CR	5000.	Research in Education	2 s.h.
CR	4560.	Measurement and Assessment	2 s.h.
CE	4590.	Nursery-Kindergarten Curriculum and Instruction	4 s.h.
or			
CE	4610.	Seminar in Early Childhood Education (2)	
RE	4890.	Reading and Communications	2 s.h.
CE	5130.	Teaching the Language Arts	3 s.h.
AH	5470.	Social Foundations of Education	2 s.h.
PSY	4550.	Advanced Educational Psychology	2 s.h.
Academic Spread			12 s.h.
Electives			7 s.h.

Courses of Instruction in Elementary Education

(For a description of the notation used in the following list of courses, see page 42.)

0200. Handwriting/(0).F;S.

A lab for cursive and manuscript writing. Required for all elementary majors.

2000. Orientation to Teaching/(2).F;S.

A sophomore practicum for prospective teachers in which the student spends three or more hours a week serving as a teacher's assistant in a school and attends planned seminars on campus. Offered on a satisfactory-failure basis only. To be taken before admission to the College of Education.

2020. Art in the Elementary School/(3).F;S;SS.

Experiences developing understanding of perceptual growth of the child, aesthetic content in art, concepts from elements in art forms, teaching methodology, and the teaching of an art unit in a laboratory situation. No prerequisite. Two hours per week lecture.

Laboratory will include art experiences designed to increase the students' understanding of the artist's use of elements in art forms, media selected for adaptability into the elementary classroom, both two and three dimensional work. Two hours per week laboratory.

2035. Music in the Elementary School/(2).F;S.

Materials and methods in the field of music teaching in the elementary school. Music in the integrated program; emphasis on the creative phases and the development of musicianship; observation of teaching procedures with children. Designated for music majors. Must take simultaneously MUS 2036.

3010. Elementary Education in the United States/(2).F;S;SS.

An appraisal of the elementary school program with a critical study of curriculum and instructional practices. The course stresses continuity in the education of children from kindergarten through grade nine with emphasis on the history of education, structure of the elementary school, current trends and issues, and classroom management and evaluation.

3030. Elementary School Instruction/(2).F;S.

A junior practicum experience working with teachers and children in an elementary school. Four contact hours per week will be expected for two semester hours credit. Weekly seminars will be held on campus. Offered on a satisfactory-failure basis only.

3110. Social Studies in the Elementary School/(3).F;S.

The place of social studies in the elementary curriculum; objectives, instructional procedures, materials, and evaluation criteria. Practicum experiences included.

3120. Language Arts in the Elementary School/(2).F;S;SS.

A study of the communication skills—listening, speaking, reading, writing, spelling; a comparison of current methods and materials; special emphasis on the language arts as the core of the elementary curriculum. At least 20 hours of practicum experiences included throughout the semester for the K-3 majors in Curriculum Block I.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4010. Reading on the Primary Levels/(2).F;S;SS.

Methods of teaching of reading on the primary level. Prerequisite: RE 3100. For K-3 majors only.

4020. Reading on the Intermediate Levels/(2).F;S;SS.

Methods of teaching reading on the intermediate level.

4030. Mathematics in the Elementary School/(2).F;S.

A study of how children develop basic number concepts and learn to perform operations with natural numbers and fractions. Consideration of sequential learning experiences appropriate to each grade level.

4050. Student Teaching: Elementary School/(4-9).F;S.

Teaching experiences under supervision for one semester for students who plan to teach in grades K-8 of the elementary school and K-12 for those students who plan to teach special subjects, such as art, physical education and health, library science, music, special education.

4590. Nursery/Kindergarten Curriculum and Instruction/(4).F;S;SS.

Development and organization of the curriculum with emphasis placed on communicative skills, science, and social learnings; selecting, planning, and utilizing the materials, methods, activities, and facilities for programs suited to the young child. At least 20 hours of practicum experiences included for the K-3 majors.

4620. Seminar in Early Childhood Education/(3).F;S;SS.

A study of contemporary approaches and controversial issues in early childhood education and a review of recent research applicable to early childhood development and education, with an outlook for the future.

4640. Middle School Curriculum and Instruction (Grades 6-9)/(3).F;S;SS.

Development and organization of the curriculum with emphasis placed on communicative skills, the humanities, the social studies, and exploratory career education; selection and utilization of materials, methods, activities and facilities for programs suited to the transescent.

Graduate Courses

5130. Teaching the Language Arts/(3).F;S;SS.

A study of the latest research, practices, interpretation, methods, materials and strategies in teaching the language arts.

5460. Elementary School Curriculum/(3).F;S;SS.

The study of a variety of curriculum designs used regularly or experimentally in contemporary education. Emphasis on design, strategies, and materials. Special attention given to methods of individualizing instruction.

5500. Independent Study/(1-2).F;S;SS.

5505. Master of Arts Thesis/(1-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Subject matter may vary from term to term depending on student interest and need. A student may enroll more than once in a selected topics course provided that the content does not duplicate that of the previous course. (Limit of six hours credit.)

6130. Language Development/(3).F;SS.

The normative aspects of speech and language acquisition, application of linguistics and learning theory concepts; language and cognition.

6140. Independent Work in Elementary Education/(1-2).F;S;SS.

Study, analysis, and evaluation of schoolroom procedures used in a school or schools with a view to giving experiences in reconstructing educational programs of the elementary school.

6160. Field Study in Curriculum Problems/(1-3).F;S;SS.

Assisting students in developing a conceptual framework based on general system theory for guiding, developing, and evaluating elementary school curriculum improvement.

6310. Analysis of the Teaching Process/(3).S;SS.

Examination of the teacher-pupil and pupil-pupil interaction in the classroom through study of original relevant research disciplines concerning human behavior and society. Special attention is given to the efforts of teacher approaches to children, the organization of curriculum materials and the structure of the classroom society on the accomplishment of education objectives.

6360. A Survey of Research in Child Development and Its Implication for Teaching/(3).S;SS.

The physiological, sociological, and psychological bases of human behavior with emphasis upon research dealing with the normal school child in his environment.

6460. Issues, Trends, and Problems in Elementary Education/(3).F;SS.

Analysis of current practices, problems, and trends in elementary education with emphasis on improved programs.

6470. Continuous Progress and Non-graded Elementary Schools/(3).F;SS.

A study of materials, techniques, and processes of individualizing instruction in the elementary schools.

6500. Independent Study/(1-4).F;S;SS.

6530. Selected Topics/(1-3). On demand.

Consideration of group and individual investigations in elementary education.

Department of Reading Education

Uberto Price, Chairman

The Department of Reading Education is responsible for organizing and providing instructional programs in reading and is responsible for advisory and administrative functions essential to the effectiveness of the programs.

The reading program is designed to meet the requirements for a second academic concentration for education majors at the undergraduate level and for graduate certification on the master's level.

The graduate level reading specialization prepares individuals for teaching reading from kindergarten through grade twelve and permits the individual to teach in the area(s) of his undergraduate major.

Each individual program is planned by the student and his advisor according to educational background and objectives.

Courses of Instruction in Reading Education

(For a description of the notation used in the following list of courses, see page 42.)

1000. Developmental Reading I/(1). F;S;SS.

This course is designed to afford immediate improvement of reading skills and study habits to enable students to carry out the academic requirements of college.

2000. Developmental Reading II/(1). F;S;SS.

This advanced course in developmental reading is designed to enrich the mature reader's skills by expanding techniques in effective reading, by improving speed and flexibility in reading, and by exploring procedures for establishing lifelong reading interests. Prerequisite: Passing Reading Proficiency Test or CR 1000.

3100. Foundations of Reading/(2). F;S;SS.

This course deals with the nature of the reading process, knowledge and application of basic skills. Required of majors in elementary education.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

To meet the needs of special interest groups such as Associate of Arts graduates working as paraprofessionals wanting to learn specific areas and skills. May be interdisciplinary in content or methodology.

4590. Teaching of Reading/(2).F;SS.

A study of current practices, materials, and philosophy of teaching reading on all levels.

4630. Reading in the Content Areas/(2).F;SS.

For elementary and high school.

4640. Workshop in Teaching Reading/(2).SS;Ex.

4650. Linguistics and Reading/(2).S;SS.

This course relates these areas of linguistics to the process of reading—phonetics, syntax, semantics, rhetoric and dialect.

4720. Diagnostic and Remedial Reading I/(3).F;S;SS.

For the classroom teacher. How to locate causes of reading difficulties and prescribe corrective procedures. Prerequisites: CE 4010 or 4020, SE 4620 or RE 4590.

4730. Diagnostic and Remedial Reading II/(3).F;S;SS.

Students are assigned to individual or small groups for diagnostic and remedial teaching. Prerequisite: CR 4720.

4890. Reading and Communications/(2). On demand.

This course deals with reading as it relates to mass media and communications.

Graduate Courses

5080. Clinical Problems in Reading/(2-6).S;SS.

Deals with clinical techniques used in the diagnosing and treatment of reading problems. Prerequisite: CR 4720, majors.

5110. Reading and the Language Arts/(2).F;S;SS.

Investigations are made of the literature and research in reading and the language arts and their interrelationships.

5120. Psychological Bases of Reading/(2).F;SS.

This course is designed to pursue in depth the psychological basis of reading and the reading act, motivation and learning.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(1-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Subject matter may vary from term to term depending on student interest and need. A student may enroll more than once in a selected topics course provided that the content does not duplicate that of the previous course. Limit of four hours credit.

5510. Field Experience in Teaching Reading/(1-6).F;S;SS.

Students register only by permission.

5570. Reading Curriculum: Organization, Supervision and Assessment/(3).S;SS.

Studies are made of the following: reading curriculum designs, implementation, supervision and evaluation of reading programs. Prerequisites: 24 hours in reading or permission of advisor in reading.

5590. Advanced Course in Methods and Materials in Reading/(2).S;SS.

Students will select and learn techniques of designing, making, and utilizing instructional materials for specific teaching purposes and methods. Prerequisite: 18 hours in reading and/or permission of graduate advisor in reading.

5670. Research in Current Literature in Reading/(3).S;SS.

Research and critical analysis are made in current periodicals, journals and recent books on critical areas of reading. Prerequisite: 18 hours in reading or permission of advisor in reading.

5710. Seminar in Reading/(2).S;SS.

The seminar is planned to meet the needs of specific groups in reading. Students can register only by permission.

6500. Independent Study/(1-4).F;S;SS.

6530. Selected Topics/(1-3). On demand.

6730. Advanced Seminar in Reading/(1-4). On demand.

A seminar built around reading-related experiences the student faced in his field work as well as other current reading-related topics.

Department of Secondary Education

N. A. Miller, Chairman

The Department of Secondary Education offers undergraduate and graduate courses leading to certification in the various fields of instruction in the secondary school (grades 7-12). In addition to meeting the minimal requirements for certification, the department maintains programs of instruction, research, and field services for the continuous improvement of curriculum development, educational materials, and methods of teaching.

A student preparing to teach in the secondary school must complete Secondary Education 3040, 3050; Psychology 3301, 3302; one methods course in his field of concentration; and Secondary Education 4070. Each student planning to teach in secondary school should take Secondary Education 2000, Orientation to Teaching, during the sophomore year. This will enable a student to decide early on a career in teacher preparation.

A student preparing to teach in a special area (art, health and physical education, library science, and music) must complete Elementary Education 3010, 3110 or 3120 or Secondary Education 3040, 3050; Psychology 3301, 3302; methods course or courses in his field of concentration; and Secondary Education 4070.

Courses of Instruction in Secondary Education

(For a description of the notation used in the following list of courses, see page 42.)

2000. Orientation to Teaching/(1-2).F;S.

A laboratory experience for sophomores in public schools. Students spend 30 hours each semester as teacher aides. One semester is spent K-6 and one semester 7-12. One hour credit is earned each semester on a satisfactory-failure basis. Elective course for all prospective secondary education majors.

2040. Music in the High School/(2).S.

A study of the organization and direction of the music program in the secondary school. Materials for the adolescent voice, elementary theory, music appreciation, operettas, and program building are surveyed. Designated for music majors. Music 2023 must be taken simultaneously with SE 2040.

3031. Instrumental Techniques and Materials/(2).S.

A comprehensive survey of the materials and methods in instrumental class teaching. Prerequisites: EE 3120 or SE 3040; PSY 3302.

3032. Choral Techniques and Materials/(2).S.

A comprehensive survey of the materials and methods in choral teaching. Prerequisites: EE 3120 or SE 3040; PSY 3302.

3040. Public Education in the United States/(3).F;S;SS.

Required for secondary majors. A study of public education in America with emphasis on the secondary school. Includes investigating the nature of education, American education from a historical perspective, philosophies of education, the structure and finance of American education, socio-economic class and education and crucial issues in education.

3050. Principles of Secondary Education/(3).F;S;SS.

Required for secondary education majors. A premethods course. Includes the American adolescent today, a review of learning theories, problems and issues in curriculum development, evaluating student progress and an introduction to various media and methods of instruction.

3080. Teaching High School Mathematics/(2).F;S.

Students will have 30 hours of teamed experiences in public school classrooms and 15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3090. Teaching High School Science/(2).F;S;SS.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3100. Teaching High School Social Science/(2).F;S;SS.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3110. Teaching High School English/(2).F;S;SS.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3120. Teaching Foreign Languages/(2).S.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3130. Teaching Home Economics/(2).F;S.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3140. Teaching Physical Education/(2).F;S;SS.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3150. Art in the Secondary School/(2).F.

Exploration into the functional use of a variety of art materials, techniques, curriculum construction considering the level of the student's creative development in relation to his needs, interests, maturity; the philosophy and psychology of art education. Prerequisites: SE 3040 and PSY 3302.

3160. Teaching Industrial Arts(2).F;S.

Prerequisites: SE 3040 and PSY 3302.

3170. Teaching Business Education/(2).F;S.

Students will have 30 hours of teamed experiences in public school classrooms and from 10-15 hours of seminars. Prerequisites: SE 3040 and PSY 3302.

3180. Teaching Speech/(2).S.

Prerequisites: SE 3040 and PSY 3302.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a class-

room situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4070. Student Teaching High School/(3-9).F;S;SS.

Full-time teaching experience under supervision for one semester or part-time teaching experience under supervision for one year. This includes students majoring in art, physical education and health, library science, music, and special education grades K-12 and students who plan to teach secondary school subjects grades 7-12. Students who wish to student teach during the summer must make application to the Director of Field Experiences by March 1.

4620. Reading on High School and Advanced Levels/(3).F;S;SS.

Reading problems encountered on the high school level; reading in the content areas of the curriculum; the total school responsibility in reading improvement. Opportunities for practical application provided.

Graduate Courses

5032. Organization and Supervision of School Music/(2).S;SS.

The responsibilities of the music supervisor in relation to the classroom teacher, the music teacher, and the school administration. (Same as MUS 5032.)

5100. Co-Curricular Activities/(2).S;SS.

A study of extracurricular activities which modern schools are expected to carry out as a part of their educational program.

5150. Organizing and Planning Student Teaching/(2).F;SS.

A study of the origin and development of student teaching, including present status and trends, experiences prior to student teaching, selection of schools and supervising teachers, selection and placement of student teachers.

5160. Supervision of Student Teaching/(3).S;SS.

A study of general techniques of a supervising teacher, including observation, guiding student teachers in planning, orientation of student teachers, student teacher participation, and evaluation. Available as a workshop by invitation.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

Subject matter may vary from term to term depending on student interest and need. A student may enroll more than once in a selected topics course provided that the content does not duplicate that of the previous course. Limit of four hours credit.

5620. Secondary School Curriculum/(3).SS.

A study of the modern secondary school curriculum; development, recent trends, and organization; including the philosophy and psychology upon which these practices are based.

5800. History of American Education/(3).S;SS.

A study of the historical development of education in the United States. Special emphasis is given to educational concepts and practices as they relate to political, social, and cultural developments in the growth of a system of public education.

The College of Fine and Applied Arts

Nicholas Erneston, Dean

R. Clinton Parker, Assistant Dean

In cooperation with other colleges of the university, the College of Fine and Applied Arts strives:

1. To provide for varied interests, desires, needs, and abilities of students.
2. To provide a liberal education for all Appalachian students.
3. To expand cultural horizons and develop appreciation of ethical and aesthetic values.
4. To prepare students for certain professions.
5. To prepare students for entrance into certain professional schools.
6. To provide sound foundations for students capable and desirous of advanced study.
7. To provide students for graduate study and research.

Departments

The College of Fine and Applied Arts consists of the following seven departments:

Art
Health, Physical Education and Recreation
Home Economics
Industrial Arts and Technical Education
Military Science
Music
Speech

Degrees Offered

The College of Fine and Applied Arts offers the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Music degrees. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in art, health and physical education, home economics education, industrial arts, music (Bachelor of Music in Music Education), speech, and speech correction (speech and hearing).

To be admitted to the College of Fine and Applied Arts as a candidate for a baccalaureate degree a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least 2.00, which must be maintained.

3. Completed English 1000 and 1100.
4. Been accepted by a department in the college as a major in that department.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairman of the Department of Secondary Education.

Bachelor of Arts Degree

In order for a student to earn the Bachelor of Arts degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages places students at the level at which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 32 to 40 semester hours from one of the fields listed below:

   Art Music Speech

   A student must have at least a 2.00 grade-point average on all work in the major. A transfer student must complete at least eight semester hours of work in his major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each departmental major preface the list of courses offered by the department.

5. Completion of a minor consisting of 12 to 18 semester hours from a department other than the Departments of Administration, Supervision and Higher Education, Childhood Education, Counselor Education and Research, Reading Education, and Secondary Education. A transfer student must complete at least four semester hours in his minor at Appalachian. The choice of a minor should be made under the guidance of the student's advisor in his major field of study. *Specific requirements for each departmental minor preface the list of courses offered by the department.*
6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning satisfactory citizenship and the settlement of all expense accounts.

9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

A candidate for the Bachelor of Arts degree may qualify for a teacher's certificate by admission to professional education courses through the chairman of the Department of Secondary Education and by completing all academic and professional education requirements for certification.

Bachelor of Science Degree
(without teacher certification)

In order for a student to earn the Bachelor of Science degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.

2. Completion of the general education requirements.

3. Completion of a major of 36 to 45 semester hours selected from one of the fields listed below:

   Health and Physical Education — Industrial Arts
   Home Economics in Business

   A student must have at least a 2.00 grade-point average on all work in the major. A transfer student must complete at least eight semester hours of work in his major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each departmental major preface the list of courses offered by the department.

4. Completion of a minor consisting of 12 to 18 semester hours from a department other than the Departments of Administration, Supervision and Higher Education, Childhood Education, Counselor Education and Research, Reading Education, and Secondary Education. A transfer student must complete at least four semester hours in his minor at Appalachian. The choice of a minor should be made under the guidance of the student's advisor in his field of study. *Specific requirements for each departmental minor preface the list of courses offered by the department.*

5. Completion of electives to total 122 semester hours.

6. Completion of residence requirements.

7. Compliance with regulations concerning satisfactory citizenship and the settlement of all expense accounts.

8. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Bachelor of Science Degree
(with teacher certification)

For the requirements for the Bachelor of Science degree with teacher certification see page 140.

Bachelor of Music

In order for a student to earn the Bachelor of Music degree in the College of Fine and Applied Arts, the following requirements must be met.

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major of a minimum of 72 semester hours in music (52-53 semester hours for music education majors) in the following fields:

   Performance
   Music Education
   Sacred Music
   Music Merchandising
4. A student must have at least a 2.00 grade-point average on all work in the major. A transfer student must complete at least eight semester hours of work in his major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

   Specific requirements for each departmental major preface the list of courses offered by the department.
5. Completion of a minor of 20-23 semester hours in education (Music Education majors only). A transfer student must complete at least four semester hours in his minor at Appalachian.
6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning satisfactory citizenship and the settlement of all expense accounts.
9. Recommendation of the faculty.

For the specific requirements for the Bachelor of Music degree programs, consult the section dealing with degree programs in the section of this catalog which discusses the Department of Music.

Department of Art

Lawrence F. Edwards, Chairman

The objectives of the Department of Art are twofold. One objective is to provide the best preparation and training of teachers of art for the public

schools. The second objective is to provide the best professional training in order that the art student, whether planning to teach or not, may make a creative contribution to the visual arts of our culture.

In addition, the general community will have the opportunity to increase its knowledge and appreciation of art through service courses and the major professional exhibitions of art sponsored by the Department of Art. A major in art leading to the Bachelor of Science degree and teacher certification consists of 43 semester hours, including Art 1000, 1001, 1002, 2000, 2002, 2004, 2005, 2006, 2007, 2008 or 2009, 2500 or 3500, 3002, 3006, 3007; and a minimum of eight semester hours from one of the following areas of specialization: Art 2001, 3000, 4000; or Art 2003, 3001, 4001; or Art 3003, 3004, 4003. Students seeking specialization in constructive design must complete Art 2007, 2008, 2009 with a minimum of four semester hours to be taken from Art 2010, 3005, 4004, 4008. The art major must also take two semester hours of an art elective. The art major must also take Elementary Education 2020, Secondary Education 3150, and Educational Media 4750.

A major in art leading to the Bachelor of Arts degree consists of 40 semester hours, including Art 1000, 1001, 1002, 2000, 2002, 2004, 2005, 2006, 3002, 4002, 4007; and a minimum of eight semester hours from one of the following areas of specialization: Art 2001, 3000, 4000; or Art 2003, 3001, 4001; or Art 3003, 3004, 4003. Students seeking specialization in constructive design must complete Art 2007, 2008 and 2009, with a minimum of two semester hours from Art 2010, 3005, 4004, 4008. The art major must also take three semester hours of an art elective.

A minor in art consists of 16 semester hours, including Art 1001 and 1002 and a remainder of eight semester hours to be taken through consultation with an approval by the chairman.

A concentration in art for elementary education majors consists of 12 semester hours, including Art 1001 and 1002 and a remainder of four semester hours to be taken through consultation with and approval by the chairman.

An academic concentration in art leading to the Master of Arts degree for elementary school teachers consists of 16 semester hours including 5009, 5010, 5500; two semester hours from any 5000 level studio course; three semester hours from any 5000 level art history; and six additional semester hours in electives from studio and/or art history on the 5000 level.

An academic minor in art leading to the Master of Arts degree for elementary school teachers consists of nine semester hours including Art 5009, 5010; two semester hours of graduate level studio courses selected from the areas of painting or printmaking, or sculpture or constructive design; three semester hours in graduate level art history.

Additional professional requirements for the Master of Arts degree for elementary school teachers are listed in the Graduate School section of this catalog.

Art 2016, 4550, and 4551 are not approved for completing requirements for an art major, minor, or concentration.

Courses of Instruction in Art

(For a description of the notation used in the following list of courses, see page 42.)

1000. Equipment and Materials/(1).F;S.

A study of equipment and materials necessary in the production of art. Study and use of hand and power tools, materials and processes as related to diverse studio needs. Lecture and Studio two hours.

1001. Foundations I/(4).F;S;SS.

First half of basic studio problems in the visual arts. Emphasis on developing competencies in the arts process through exploration with the art elements, concepts, media and principles of organization. Students are advised to complete the Foundations Program through association with all faculty engaged in instruction in this program. Lecture and Studio eight hours.

1002. Foundations II/(4).F;S;SS.

Second half of basic studio problems in the visual arts. Emphasis on developing competencies in the arts process through exploration with the art elements, concepts, media and principles of organization. Students are advised to complete the Foundations Program through association with all faculty engaged in instruction in this program. Lecture and Studio eight hours.

2000. Painting/(2).F;S;SS.

Basic course in handling of a variety of painting media and the exploration of pictorial solutions. Prerequisites: ART, 1000, 1001, and 1002. Lecture and Studio four hours.

2001. Painting/(2).F;S;SS.

Intermediate studies with a variety of media. Prerequisite: ART 2000. Lecture and Studio four hours.

2002. Sculpture/(2).F;S;SS.

An introduction to sculptural ideas and concepts with emphasis on modeling and casting. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio four hours.

2003. Sculpture/(2).F;S;SS.

An introduction to constructive and subtractive processes. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio four hours.

2004. Ancient Through Renaissance Art/(3).F;S.

A survey of painting, sculpture, and architecture from prehistoric times through the sixteenth century. Lecture three hours.

2005. Printmaking/(2).F;S;SS.

General introduction to and involvement with basic printmaking processes. Emphasis on relief printing. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio four hours.

2006. Drawing/(3).F;S;SS.

Involvement with a variety of drawing concepts and media. Work from the human figure, landscape, still life. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio six hours.

2007. Constructive Design (Plastic Media)/(2).F;S;SS.

A plastic media foundation. Creative synthesis of plastic design concepts utilizing aesthetic choice as foundation for spiritual growth. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio four hours.

2008. Constructive Design (Fibers)/(2).F;S;SS.

Basic skills in fiber construction with emphasis on design development. Prerequisites: ART 1000, 1001, and 1002. Lecture and Studio four hours.

2009. Constructive Design (Alloys)/(2).F;S.

Introduction to alloys and related media through the synthesis of aesthetic concepts and skills. Prerequisites: ART 1000 and 1002. Lecture and Studio four hours.

2010. Constructive Design (Fibers)/(2).S;SS.

Constructive design in fibers with advanced exploration of techniques. Prerequisite: ART 2008. Lecture and Studio four hours.

2011. Art Introduction/(3).F;S;SS.

Analysis of selected examples of architecture, sculpture, painting, crafts, and industrial design in relation to their historic time and need. Three hours lecture.

2012. Humanities—Music, Art, and Ideas I/(3).F.

A survey course of an interdisciplinary nature concentrating upon man's relationship to his environment. This includes man's relationship to man, to nature and to God. The first half of the course concentrates upon the Byzantine through the Renaissance periods. Prerequisite: ART 2011 or MUS 2011. (Same as MUS 2012.)

2013. Humanities—Music, Art and Ideas II/(3).S.

A survey course of an interdisciplinary nature concentrating upon man's relationship to his environment. This includes man's relationship to man, to nature and to God. The second half of the course concentrates upon the Baroque through contemporary times. Prerequisite: ART 2011 or MUS 2011. (Same as MUS 2013.)

2015. Photographic Design/(2).S.

Fundamentals of photographic design with emphasis on aesthetic images. Prerequisites: ART 1000, 1001 and 1002. Lecture and Studio four hours.

2016. Studio For Non-Art Majors/(2).F;S;SS.

Studio course for the nonart major wishing to pursue art experiences in varied studio areas. (Painting, Sculpture, Printmaking, etc.). Course may be repeated barring duplication of experiences. May be offered on a Pass-Fail basis. No prerequisites. Lecture and Studio four hours.

2500. Independent Study/(1-4).F;S;SS.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: Permission of department chairman.

3000. Painting/(3).F;S;SS.

Advanced problems in painting with emphasis on the human figure. Individual experimentation and expression stressed. Prerequisites: ART 2001 and 2006. Lecture and Studio six hours.

3001. Sculpture/(3).F;S;SS.

Intermediate exploration into theories of structuring sculptural form through advanced skills and processes. Emphasis on in-depth individual exploration in selected areas. Prerequisite: ART 2003. Lecture and Studio four hours.

3002. Baroque Through Modern Art/(3).F;S.

A survey of painting, sculpture, and architecture from the seventeenth through the twentieth century. Lecture three hours.

3003. Printmaking/(2).F;S;SS.

Basic serigraphy processes with emphasis on technical understanding and resolved pictorial statements. Prerequisites: ART 2005 and 2006. Lecture and Studio four hours.

3004. Printmaking/(3).F;S;SS.

Involvement with the intaglio processes with emphasis on thorough technical understanding and resolved pictorial statements. Prerequisites: ART 2005 and 2006. Lecture and Studio six hours.

3005. Constructive Design (Alloys)/(2).F;SS.

Advanced concentration in specific alloys with emphasis on in-depth ex-

ploration in alloys emphasizing individual aesthetic statements. Prerequisite: ART 2009. Lecture and Studio four hours.

3006. Interdisciplinary Arts Education/(1).F.

Involvement with concepts from interdisciplinary arts using direct experiences. For Art Education majors and to be taken the same semester with EE 2020 (Art in the Elementary School) and EE 2020 laboratory. Two hours laboratory.

3007. Curriculum Methods and Materials in Art Education/(3).S.

Curriculum and Lab planning, purchasing, and media translation in terms of aesthetic concepts for Elementary and Secondary Art. Course must be taken the same semester as SE 3150 (Art in the Secondary School) and SE 3150 laboratory. Lecture three hours.

3008. Life Studies/(1).F;S.

Studio course involving advanced study of the human form from the model. Structure and action of the figure will be explored through media selected by the student; i.e., paint, sculpture, print media, etc. The course is specifically designed to allow the studio student a direct experience with life studies in his particular medium. Prerequisites: ART 1001, 1002, and 2006. Lecture and Studio two hours.

3000. Drawing/(2).F;S;SS.

Advanced experiences with drawing with emphasis on composition. Prerequisite: ART 2006. Lecture and Studio four hours.

3500. Independent Study/(1-4).F;S;SS.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: Permission of the department chairman.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4000. Painting/(3).F;S;SS.

Advanced painting emphasizing the solution of problems to be planned by the students. Prerequisites: ART 2001 and 2006. Lecture and Studio six hours.

4001. Sculpture/(3).F;S;SS.

Advanced study in sculpture with emphasis on in-depth individual exploration in one area of sculptural concern. Prerequisite: ART 3001. Lecture and Studio six hours.

4002. Art As Visual Language/(3).S.

A course in Art Criticism where techniques of analysis are approached through readings and demonstrations. Major emphasis will be placed upon interpretation and the developing of a critical approach. Lecture three hours.

4003. Printmaking/(3).F;S;SS.

The basic chemistry and related techniques of lithography with emphasis on technical understanding and resolved pictorial statements. Prerequisites: ART 2005 and 2006. Lecture and Studio six hours.

4004. Constructive Design (Plastic Media)/(2).F;S.

Advanced constructive design with plastic media. Concentration in-depth with one aspect of plastic construction design. Prerequisite: ART 2007. Lecture and Studio four hours.

4007. Seminar/(2).S.

A special course offering based upon faculty and student interest in advanced studies in art, art history, art education, research and interdisciplinary art. Courses may be repeated barring duplication of content. Times to be arranged. Prerequisite: Permission of the department chairman.

4008. Practicum of the Craftsman/(2).S.

Understanding of theoretical and practical issues encountered by the craftsman. Prerequisite: Permission of the

instructor. Lecture and Studio four hours.

4550. Art Education Workshop/(2).SS.

An intensive two week course devoted to art instruction in grades one through twelve, including the correlation of art with teaching at all levels. Art materials and supplies for grade levels are examined. Each student pays for materials used, and all articles made by the student become the student's property. Lecture and Studio four hours.

4551. Workshop in Studio/(2).SS.

An intensive two week course to be offered in selected media: i.e., Painting, Sculpture, Printmaking, etc. Not for the Art major. Lecture and Studio four hours.

Graduate Courses

5001. Sculpture/(2).F;S;SS.

Emphasis on individual student experimentation on the graduate level. Lecture and Studio four hours.

5002. Ancient Through Renaissance Art/(3).F;S.

An intensive investigation of art forms from Ancient through Renaissance Art. A graduate research paper will be required. Emphasis upon critical methods of evaluation. Lecture three hours.

5003. Baroque Through Modern Art/(3).F;S.

An intensive investigation of art forms from Baroque through Modern Art. A graduate research paper will be required. Emphasis upon methods of critical evaluation. Lecture three hours.

5004. Art As Visual Language/(3).S.

An intensive course in Art Criticism where techniques of analysis are approached through readings and demonstrations. A graduate research paper will be required. Emphasis upon developing a critical approach. Lecture three hours.

5005. Printmaking/(2).F;S;SS.

Advanced studio work in printmaking. Designed to develop an individual sense of graphic form. Lecture and Studio four hours.

5006. Constructive Design (Fibers)/(2).F;S;SS.

Design with fibers on the graduate level. Broad range and in-depth exploration of fibers with research involving the place of fibers as both historical and contemporary art forms. Lecture and Studio four hours.

5007. Constructive Design (Plastic Media)/(2).F;S;SS.

Individual problems in plastic media on the graduate level. Theoretical and practical problems of the craftsman are carried out to practical solutions. Conventional or creative means of reporting based on thorough research. Lecture and Studio four hours.

5008. Constructive Design (Alloys)/(2).F;SS.

Design with alloys on the graduate level. Broad range and in-depth exploration of alloys with research involving the place of alloys as both historical and contemporary art forms. Lecture and Studio four hours.

5009. Teaching and Learning Processes in Art Education/(2).F.

A study of aesthetic and perceptual development of the child; aesthetic content in the work of the artist and of the child; teaching methodology, historical and contemporary, through a study of writings, philosophies and research. Lecture two hours.

5010. History and Philosophy of Art Education/(2).S.

An in-depth study of the historical philosophies and concepts of art education in western civilization which provide the basis for contemporary approaches to art education. Emphasis on the effects upon secondary and higher education. Lecture two hours.

5011. Painting/(2).F;S;SS.

Graduate course in Painting. Emphasis on a professional level of accomplishment. Lecture and Studio four hours.

5500. Independent Study/(1-4).F;S;SS.

The graduate student may broaden and intensify his program through individual research and involvement in a given art area.

5530. Selected Topics/(1-3). On demand.

Department of Health, Physical Education and Recreation

Lawrence E. Horine, Chairman

The objectives of the department are to prepare teachers, coaches, and youth leaders in health education, driver education and safety, physical education and recreation for the schools and related agencies; to provide experience in physical education activities which will lead to acquisition of skill and fitness with leisure time and recreational value; to strive for optimum development of personality and good mental and emotional health through group and individual guidance; to uphold and promote high ethical standards in the profession; to pursue the above objectives within the context of the aims, objectives, and purposes of the university.

A major in health and physical education leading to a Bachelor of Science degree *without teacher certification* consists of 36 semester hours including: HS 1105, 3100, PE 1550, 2505, 3510, 3550, 4000, 4010, 4020; Electives: 14 from any Skill and Technique courses 3070 to 3097, or HS 3120, 3130, 4100, 4650, 4660; TSE 2200; PE 3570, 4045, REC 2300, 2310, 3310, 3850, 3860. BIO 1101 and 1102 are required. Students in this program may not minor in health education.

A major in health and physical education leading to a Bachelor of Science degree *and teacher certification* consists of 45 semester hours in addition to the general education requirements. These courses include: Two semester hours of activity courses in addition to those required for general education; HS 1105, 3100; PE 1550, 2000, 2010, 2550, 3505, 3510, 3550, 3580, 4000, 4010, 4020; five semester hours from Core I, Individual and Dual Skill and Technique courses; four semester hours from Core II, Team Sport Skill and Technique courses; three semester hours from Core III, Recreation Sport Skill and Technique courses. BIO 1101 and 1102 are required.

A *minor in health and physical education* consists of 16 semester hours. Courses required are: HS 1105, 3100; PE 2505, 2550, 3510, 3550. BIO 1101 and 1102 are required.

A major in health education leading to a Bachelor of Science degree *with teacher certification* consists of 40 semester hours, in addition to the general education requirements and the professional education courses required for state certification. These courses include: HS 3100, 3110, 3120, 3130, 3499, 3520, 3655, 4100, 4650, 4660; TSE 3200; HEC 1200; EM 4750; any sociology or psychology course at or above the 3000 level (not counted toward general or professional education); SCH 2155 and PE 2000.

The health education major leading to the Bachelor of Science degree *without teacher certification* will be the same as the health education major with teacher certification with the following exceptions: omit Methods and Materials in Health Education HS 3655 (2); add one additional two

(2) hour sociology or psychology course. Student must meet this requirement by selecting any sociology or psychology course at or above the 3000 level. This course is not to be counted as meeting the requirements for general education.

A minor in health education consists of 16 semester hours. Required courses are: HS 3100, 3110, 3130, 4650, and 4660.

A major in recreation, leading to the Bachelor of Science degree (without teacher certification), consists of a total of 39 to 47 semester hours. The required core consists of 27 to 33 semester hours: REC 2300, 3499, 3520, 3860, 4310, 4499, and 4850; HS 3100; BIO/PSY 3318; SOC/PS 3328; GHY 3400; BA 3150; ACT 2100; and PE 3510. In addition, four (4) semester hours are required in recreation activity areas selected from one of the following pairs: PE 3090 and REC 3310; REC 2310 and REC 3850; PE 3072 and REC 3520; or PE 3092 and repeat of REC 4499. Also, four semester hours must be earned in recreation sports from among courses PE 3070 through 3097. Lastly, courses in leisure arts are required by completing a minimum of four semester hours from one of the following areas: ART 2011 and 2016; IA 2005, 2006, 2016, 2026, 2036; HEC 1201, 1300, 2200, 2300; MUS 1100, 1101, 1108, 1109, 1110, 1111, 2011, 2020; SCH 2011, 2208, 4256; ENG 3650 and 3660; or MUS 2012 and 2013; or ART 2012 and 2013. NOTE: Credit in ART 2011, 2012, 2013; MUS 2011, 2012, 2013; or SCH 2011 may also be applied to general education requirements.

A minor in recreation consists of 15 to 16 semester hours. Required are: REC 2300, 3499; PE 3510; one course from BIO/PSY 3318; SOC/PS 3328; or GHY 3400; one course from REC 3860 or REC 4310; and four semester hours from recreation activities or sports.

A minor or concentration of 20 semester credits in athletic coaching is open to *nonphysical education majors.* Courses required: HS 3100; PE 2505, 3510, 3550, 4010, 4045; and six semester hours from PE 3070 to 3097, provided the activity is related to athletic competition in the public schools. Six semester hours in biology are required.

A minor or concentration for physical education majors in athletic training consists of 16 semester hours. Required are: HEC 1200; PE 4570, 4030; CHE/PHY—5 semester hours.

A major in driver and traffic safety education leading to the Bachelor of Science degree *with teacher certification* consists of 40 semester hours. Twenty-seven (27) semester hours are required from the following: HS 3100, 4650; TSE 2200, 3200, 3210, 4200, 4210, and 4750; HR 2200. Electives: Ten semester hours from HS 3100 (one hour only); TSE 2500, 3499, 3500, 3520, 3750; EM 4750; PE 4020; or IA 3017 and three (3) semester hours of psychology or sociology not included in general education or professional education at upper division level and subject to stated prerequisites.

A minor or concentration of 16 semester credits in driver education is open to all majors and requires: TSE 2200, 3200, 3210, 4200, and 4210.

A major in health and physical education of 36 semester hours leading to the Master of Arts degree with certification in secondary, two-year college, or both are available with the following tracks: general physical education; recreation management; athletic administration; or safety and driver education. All require a common core of ten semester hours consisting of the following: PE 5000, 5550, 5560 (or thesis), and 5570. Students earning secondary certification will complete eight semester hours prescribed by the College of Education and those earning two-year college certification will complete four semester hours prescribed by the College of Education. The remaining hours will be electives or as prescribed for each track.

Courses of Instruction in Health Education, Physical Education, Recreation, and Driver and Traffic Safety Education

(For a description of the notation used in the following list of courses, see page 42.)

Health Education

1105. Fundamentals of Personal and Community Health/(2).F;S;SS.

Survey course designed specifically for *nonhealth majors*. Topics to be covered include basic principles of personal health problems including diet and weight control, drugs, degenerative diseases, personal hygiene, smoking, human sexuality, etc. Analysis will also be made of public and private health organizations, environmental health and basic factors responsible for the cause and spread of infectious diseases.

2500. Independent Study/(1-4).F;S;SS.

3100. First Aid/(2-3).F;S;SS.

Students enrolling for two (2) semester hours credit will receive the American Red Cross Standard Course dealing with the principles and techniques of emergency first aid and personal safety. Students enrolling for three (3) semester hours credit will continue beyond the Standard Course and may obtain Advanced American Red Cross certification. Health majors: Three hours required. Health minors: Two hours required.

3110. Personal, School and Community Health/(4).F;SS.*

A study of the physical, mental, and social factors of personal, school and community health problems. Topics include methods of control and prevention of degenerative and infectious diseases, mental health, aging, family planning, as well as a comprehensive and in-depth analysis of private and public health organizations.

3120. Consumer Health Education/(3).F;SS.*

An in-depth study of advertising techniques and claims concerning a variety of health products. Analysis will also be made of various health fads, quackery and the role of the FDA and FTC and other governmental agencies in protecting the consumer.

3130. Environmental Health/(3).S;SS.*

Study of the application of various principles of sanitary science as they relate to the prevention and control of disease spread through pollution of water, milk, food, swimming pools, sewage, faulty plumbing, refuse, vec-

* Scheduled alternate summers.

tors, radiation, air, noise, housing and related areas. (Field trips required.)

3499. Internship in Health Education/(2).F;S;SS.

The internship will consist of the student being placed in educational institutions, health centers, public health departments or community action health programs for one semester or a portion of a semester. Stipends may be included. The student will be exposed to duties in all facets of the organization or institution, will complete a comprehensive term paper based on the internship experience, and take part in a minimum of two seminars. (S/U)

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

A program involving advanced study in selected current health topics. Topics will be chosen on the basis of their impact on the health status of society and on their relevance to students. May be repeated for a maximum of nine (9) hours with no specific topic being taken more than once.

3655. Methods and Materials in Health Education/(2).F;S;SS.

The theory and practice of planning various types of health education programs for elementary and secondary levels; development of teaching and audiovisual materials; resources and organizations available for health teaching.

4100. Biostatistics/(2).S.

A study of computational techniques, theoretical frameworks and methodology used in the application, measurement, interpretation and evaluation of statistics in the health sciences.

4650. Drugs, Alcohol and Tobacco/(3). S;SS.

An in-depth study of drug use and abuse. All classes of drugs including alcohol and tobacco will be discussed. Emphasis will be placed on the psychological and sociological factors which may lead to drug experimentation and heavy drug use. Emphasis will also be placed on methodology and techniques for the teaching of drug education.

4660. Human Sexuality and Family Living/(3).F;SS.

Information and concepts of sex education including physiological, social, psychological, and moral aspects of human sexuality will be studied. Such topics as dating, marriage, prenatal and postnatal care and interfamily relationships leading to reduction of stress on family members are also to be included. Emphasis will also be placed on methodology and techniques of teaching and organizing a sex education program.

Physical Education

All students are required to elect two semester hours of activity courses (numbered 1000 to 1082). Nonswimmers are urged to take Physical Education 1000. Courses need not be taken in any particular sequence. The aim should be toward lifetime physical activity.

Gym suits are furnished and laundered by the university for campus activity. Students furnish their own athletic socks, rubber-soled shoes, jackets, and swimming suits. Towel service is provided.

Physical education attire must be turned in after the last period class is required to "dress out." A fine of $5.00 will be assessed for turning in attire late.

The following activity courses (numbered 1000-1082) are open to all students to fulfill the general education requirements of two semester hours of physical education and for those electing to take more than the minimum: (Note—The symbol * indicates coed sections. The symbol # indicates sections for men only. The symbol x indicates sections for women only.)

Aquatics Courses

1000. Swimming, Nonswimmers * (1)F;S.

1002. Beginning Swimming * (1).F;S;SS.

1004. Senior Life Saving * (1).S;SS.

Developmental Courses

1010. Adapted Physical Education * (½).F;S;SS.

1012. Physical Fitness * (½).F;S.

1014. Weight Training * (½).F;S.

1016. Self-Defense * (½).F;S.

Individual/Dual Sports Courses

1020. Racquetball/Squash Rackets * (1).F;S;SS.

1022. Tennis/Badminton * (1).F;S;SS.

1024. Handball * (1).F;S.

1026. Folk/Social Dance * (1).F;S.

1028. Modern Dance * (1).F;S.

1030. Fencing * (1).F;S.

1032. Gymnastics * (1).F;S.

1034. Ice Skating * (Fee) (½)F;S;SS.

1036. Golf * (½).F;S;SS.

1038. Archery * (½).F;S;SS.

1040. Track and Field # x (½)F;S.

1042. Wrestling # (½).F;S.

1044. Beginning Skiing * (Fee) (½).S.

1046. Intermediate Skiing * (Fee) (½)S.

1048. Hiking/Camping * (½).F;S;SS.

1050. Bowling * (Fee) (½).F;S.

1052. Marksmanship * (Fee) (½).F;S.

1054. Horseback Riding * (Fee) (½).F;S.

1056. Canoeing/Sailing * (Fee) (½).F;S.

1058. Table Tennis/Billiards * (Fee) (½).F;S.

Team Sports

1070. Softball # x (½).F;S;SS.

1072. Basketball # x * (½).F;S.

1074. Soccer # x (½).F;S.

1076. Volleyball # x * (½).F;S.

1078. Lacrosse # x (½).F;S.

1080. Field Hockey x (½).F;S.

1082. Team (European) Handball # x (½).F;S.

1550. Introdution to Physical Education(2).F;S.

A course to orient the beginning major by introducing him to the foundations of physical education through a consideration of professional opportunities

and evaluation of the competencies needed by a physical education major. Rigorous testing of basic competencies will be included.

2000. Human Anatomy and Physiology/(3).F;S.

A descriptive study of the systematic and regional structures of the human organism and of the basic life functions of those systems for a better understanding of physical activity. Prerequisite: one year of biology or equivalent.

2010. Physiology of Muscular Activity/(3).S;SS.

A study of the physiological principles as applied to muscular activity and the effects of muscular activity on the human organism. Two hours lecture and two hours laboratory. Prerequisite: PE 2000.

2500. Independent Study/(1-4).F;S;SS.

2505. Applied Human Anatomy and Physiology/(3).F;S.

A course for nonphysical education majors. An overview of the areas of human anatomy, physiology, and physiology of exercise will be presented with an emphasis on application.

2550. History, Principles and Philosophies of Physical Education/(3). F;S;SS.

An orientation into the field of elementary and secondary physical education through the study of historical backgrounds, systems and organizations, leaders and movements, concepts, principles and philosophies of physical education.

Skill and Technique Courses (3070 through 3097)

The physical education major must have completed or be enrolled in PE 1550—Introduction to Physical Education—as a prerequisite to enrolling in a skills and techniques course.

Each course will emphasize the correct movement patterns and conditioning necessary for efficient performance and will encourage the prospective teacher* to integrate teaching strategies into lesson organization and planning. Each future teacher will be requested to demonstrate proficiency in the teaching process related to selected aspects of each course. The skills and techniques courses are designed to guide the prospective teacher to select activities based upon growth maturation levels for preschool, elementary, junior high, secondary and college students.** The prospective teacher will apply basic anatomical, physiological, kinesiological, and socio-psychological concepts as related to analyzation and evaluation of motor performance. When applicable, the future teacher will also synthesize the principles relevant to the construction, selection, purchase, and maintenance of facilities, equipment, and supplies.

Each skills and techniques course will further permit the prospective teacher to judge the appropriateness of measurement procedures and evaluation tools devised to meet the individual needs of the future student.**

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* **Teaching** is considered to be synonomous with coaching—coaching is teaching.

** Does not apply to ½ hour credit courses.

(Symbols: * Coed; # Men only; x Women only)

CORE I.

Individual and Dual Skills and Techniques (Physical education majors must complete five semester hours)

3070. Tumbling and Trampoline * (1).F;S.

3071. Gymnastics and Apparatus * (2).S;SS.

3072. Tennis * (2).F;S;SS.

3073. Dance * (2).F;S.

3074. Foundations of Conditioning * (1).F;S.

3075. Wrestling # (2).F;S.

3076. Track and Field # x (2)F;S.

CORE II.

Team Sports Skills and Techniques (Physical education majors must complete four semester hours)

3080. Volleyball * (2).F;S.

3081. Field Hockey # x (2).F;S.

3082. Softball # x (1).F;S;SS.

3083. Basketball # x (1).F;S.

3084. Football # (2).F;S.

3085. Soccer # x (2).F;S.

CORE III.

Recreational Sport Skills and Techniques (Physical education majors must complete three semester hours)

3090. Aquatics * (2).F;S;SS.

3091. Outdoorsmanship * (2).F;S;SS.
Includes Archery, Backpacking, Hiking, Basic Campcraft, Outdoor Survival Techniques, Marksmanship, Hunting, Fishing, Orienteering

3092. Skiing * (1).S.

3093. Racquet Sports * (1).F;S.
Badminton, Handball Activities, Squash, Racquetball

3094. Golf * (½).F;S;SS.

3095. Ice Skating * (½).F;S;SS.

3096. Selected Recreation Activities * (½).S.

Includes Cycling, Table Tennis, Shuffleboard, Horseshoes, Deck Tennis

3097. Adult Fitness * (½).F.

3500. Independent Study/(1-4).F;S;SS.

3505. Elementary School Physical Education/(2-3).F;S;SS.

A theory and methods course focusing on human movement and its significance in the development of the lives of children K-8. One hour lecture and four hours laboratory.

3510. Organization and Administration/(2).F;S;SS.

The organization, administration, supervision, planning, budgeting, and evaluation of programs on various levels, including: use of facilities, maintenance, purchasing, insurance, varsity and intramural programs, leagues and tournaments, and public relations.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3550. Kinesiology/(3).F;S;SS.

A study of neuromuscular and mechanical principles of motion as related to the analysis of optimum motor skill performance. Two hours lecture and two hours laboratory. Prerequisite: PE 2000.

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* Teaching is considered to be synonomous with coaching—coaching is teaching.

** Does not apply to ½ hours credit courses.

3570. Officiating/(1-2).F;S.

A study of rules and rule interpretations of seasonal sports with emphasis on the proper mechanics, role, and judgment in officiating. Lecture and laboratory.

3580. Apprenticeship/(1).F;S;SS.

A practical experience in the teaching of physical education activities under direct supervision. Required prior to student teaching. Two hours laboratory with periodic seminars. (S/U) May be repeated.

4000. Adapted Physical Education and Recreation/(2).F;S;SS.

A survey of abnormalities and atypical cases; identification, with preventive, corrective and rehabilitative techniques and activities. Prerequisites: PE 2000, PE 2010, and PE 3550.

4010. Prevention and Care of Athletic Injuries/(2).F;S;SS.

A theory and methods course in the prevention and care of injuries, including safety devices, use of wraps and supports, massage, taping, therapeutic techniques, and conditioning exercises. Students will be required to purchase minimum training supplies. Prerequisites: HS 3100, PE 2000, PE 2010, and PE 3550. One hour lecture and two hours laboratory.

4020. Measurement and Evaluation in Physical Education/(3).F;S;SS.

A theory and methods course in the meaning and application of measurement, tests, elementary statistical procedures and evaluation in physical education. Two hours laboratory and two hours lecture.

4030. Athletic Training Laboratory Practice/(3-3).F;S.

A course involving both observation and practice of athletic training procedures. Will include working with university athletic teams, both on and off campus. Minimum of six (6) hours per week will be required. Six semester hours will be required of students with Athletic Training concentration.

4045. Coaching Leadership/(2).F;S.

A study of the philosophical, sociological and psychological problems in relation to leadership in competitive athletics. The organizational and administrative aspects of coaching will be included. Required of students with coaching concentration and elective for physical education majors.

4550. Seminar in Individual and Dual Sports/(2).F;SS.

A study of individual and dual sports excluding aquatics, track and field. Consists of practical application, analysis of skills, problems encountered in implementation in curriculum, and current trends associated with each sport.

4560. Seminar in Team Sports/(2).S;SS.

A study of team sports excluding basketball and football. Consists of practical application, analysis of skills, problems encountered in implementation in curriculum, and current trends associated with each sport.

4570. Advanced Athletic Training and Conditioning/(2).S;SS.

Conditioning of athletics, advanced therapy techniques, rehabilitative exercises, professional ethics, advanced taping and bandaging, specific advanced first-aid techniques used in the care of athletic injuries, and the legal aspects of athletic training. Prerequisite: PE 4010 or equivalent.

Graduate Courses

5000. Bibliography and Research/(3). F;SS.

A study of bibliographical problems in the field, types of research, research tools, resources, organization and reporting, documentation of graduate writing and application to term projects.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

5550. Sports Science/(3).F;SS.

An integration of principles from various scientific disciplines such as: Homokinetics, Physiology, Anatomy, Psychosomatics and the Social Sciences and their application to human movement performance.

5560. Research Project/(2).F;S;SS.

Selected broad research topical area of student's choice concerned with conceiving and carrying to completion a research project. Each student will have an advisor for the thesis style project and will present the findings to peers in a colloquy situation.

5570. Current Trends and Literature in Physical Education/(2).S;SS.

Identification and discussion of current issues, concepts, objectives, programs, methodologies, evaluation techniques and leaders as expressed in current physical education literature.

5580. Philosophical and International Physical Education/(3).F;SS.*

Philosophical process of sport and life with emphasis on history, education, physical education, olympics and international sport. This is a readings, practical applications and problem solving course.

5590. Acquisition and Interpretation of Physical Education Data/(4).S;SS.

Mechanics of handling grouped data, standard scores, standardized tests and descriptive statistics. Utilization of principles of test construction, data collection, and objectivity, reliability, and validity theory for quantification of both verbal and motor performance. Mechanics of computation and principles of application for inferential statistics including simple and paired t-tests, one way, ANOVA, simple post hoc tests, and basic nonparametric statistics as well as exposure to and basic understanding of the various statistical techniques frequently used in the physical education professional literature.

5600. Organization, Administration and Supervision of Physical Education and Athletics/(3).F;SS.

Analysis of problems, theory and practices of physical education and athletic programs in schools and colleges. Includes the study of administrative process, liability, public relations, office management, legalities, personnel management, travel, schedules, budgets and equipment.

5610. Analysis of Human Movement/(3).F;SS.*

Theory and techniques for analyzing motor performance, including cinematography, segmental analysis, and sport skill fundamentals based on the laws and principles of mechanical and neuromuscular action.

5620. Physiological Kinesiology/(3).S;SS.*

Integration of theoretical and practical aspects of acute and chronic adaptations occurring within the cardiovascular, musculoskeletal and integrative systems in response to the stress of exercise.

5630. Dance Pedagogy/(3).F;SS.*

Lecture discussions, practical analysis of dance movements including folk, square, ethnic, social and modern. Theoretical aspects of dance and their relationships to various movement patterns.

5640. Physical Education for the Mentally Retarded/(2).S;SS*

Developmental, therapeutic and recreational programs for the mentally retarded with the outcome directed towards the improvement of the adaptive behavior of the retarded individual.

5650. Theoretical Concepts in Elementary Physical Education/(2).F;SS.*

An interdisciplinary approach concerned with theory, curriculum, practice and current developments in elementary school physical education. Movement exploration, lead up and skill development concepts, problems and teaching trends are included.

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* May be scheduled every other summer.

5660. Psychology of Motor Learning/(2).S;SS.*

An integrative theory and problems course concerned with learning concepts, practice, motivation, methodology, transfer and distribution as applied to motor performance.

5670. Social and Psychological Dimensions of Sport/(3).F;SS.*

Current psychological and sociological theory and findings relative to movement including group interaction, perception, maturation, culture, feminism, racial backgrounds and economic status.

5680. Planning and Developing Physical Education and Athletic Facilities/(2). S;SS.*

The planning, construction, budgeting, and maintenance of indoor and outdoor facilities for athletics, physical education and recreation.

5690. Application of Creativity to Physical Education/(2).S;SS.*

The study, analysis, and demonstration of teaching physical education, health, recreation, and athletic coaching employing creative and innovative techniques. Recent trends and research findings of creative techniques in teaching physical education will be presented.

5800. Workshop/(2). On demand.

Recreation

2300. Introduction to Recreation and Leadership/(3).F;SS.

An introduction to recreational concepts, objectives, principles and function. A study of professional roles, skills, and opportunities. Includes planning for preprofessional study and experiences and the development of leadership capability. A practical encounter with leadership problems and accompanying responsibilities.

2310. The Camp Counselor/(2).S.

This course covers the aims and objectives of organized camping and the nature of the camping experience; the qualities, skills and expectations of a counselor and camp leader; experience in camper leadership and leader-director relationships; and understanding of the leadership skills and qualities for special groups such as the handicapped, culturally deprived, and outdoor education groups. The majority of this course will take place in a camp setting. One hour lecture and two hours laboratory.

2500. Independent Study/(1-4).F;S;SS.

3310. Aquatics—Public, Private, and Commercial/(2).S;SS.*

A survey of the nature, diversity, and extent of aquatic programs and organizations including an examination of the community, agency, and group needs and interests. Planning and development of aquatic programs and facilities. The examination of operational problems through observation and examination of a variety of aquatic facilities and programs. One hour lecture and two hours laboratory.

3499. Leadership Practice/(1-4).F;S;SS.

A guided practical, direct leadership experience in elected organized recreational settings. Credit is determined by the degree of engagement over a program season. Postexperience, identification, and evaluation by the student concerning personal and professional capabilities, goals, and his recommitment to a plan for continuous preparation. (S/U) Prerequisite: REC 2300.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

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* May be scheduled every other summer.

3850. The Camp Director/(2).F.

The relationship of camp purpose to program and facility. An examination of camping as it relates to a variety of individual and social needs. Identification of administrative problems relative to staff, program, resources, development, and management. A consideration of health, safety, and legal problems. One hour lecture and two hours laboratory.

3860. Program Settings and Programs/(2).S;SS.*

A course identifying the nature of community organization for recreation and leisure, the interplay of human resources and material resources, through public, semipublic, private and commercial recreational facilities. Travel to observe the operation of various facilities, their organization, development; their place in the total recreational offering and their effects upon society and individuals. One hour lecture and two hours laboratory.

4310. Special Programs in Recreation/(2).F;SS.*

Studies of various constituencies, their needs, and programs of special agencies and social units. The study will encompass programs and developments in outdoor education, recreation education, governmental parks, and primitive areas. A study of special social agencies as B.S.A., G.S.A., Y.M.C.A., Y.W.C.A., and other youth serving agencies. Consideration of rehabilitation agencies and their use of therapeutic recreation. Two hours lecture and two hours laboratory.

4499. Internship/(1-6).F;S;SS.

A guided, practical, supervisory leadership experience of the "middle level" in the conduct of recreation within a choice of recreational organization. Credit is determined by a preplanned degree of engagement over a program season. Postexperience, identification and evaluation by student of professional capabilities and goals and recommitment to a plan for continuing preparation. (S/U)

4850. Senior Seminar/(2).S;SS.*

Planning for continuing individual professional association and development. Establishment and expression of an individual professional philosophy of recreation and leisure, and the understanding of the role of the professional with attention to professional ethics. Group utilization of individual experiences and abilities in the identification, study, and solution of practical problems in recreation drawn from real situations.

Driver and Traffic Safety Education

2200. Introduction to Driver Education/(3).F;S.

Introductory course to prepare teachers of driver education. Classroom and laboratory instruction in driver education is presented in a correlated and integrated manner to increase the knowledge and skill of the driver education teacher. Driving skills and abilities of future teachers are evaluated.

2500. Independent Study/(1-4).F;S;SS.

3200. Safety Education/(3).S;SS.

A study of the broad area of safety content, techniques, and programs and their relationship to the school safety program. Examination of OSHA and selected areas of industrial safety.

3210. Traffic Safety/(3).S;SS.

An in-depth study of the content, methods, techniques, and materials in behind-the-wheel instruction in driver education. In-car teaching experience provided. Prerequisite: SE 3190 or permission of instructor, valid driver's license.

3499. Internship/(1-6).F;S;SS.

The student will be assigned to an educational institution, safety, or

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* Scheduled alternate summers.

traffic-related organization to gain in-depth experience in various areas of safety. The student will provide a written report on his experience and will participate in several seminars, small group, and/or individual conferences, related to these experiences.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

3750. Recreational Vehicles/(3). On demand.

Safety, the functions, handling, and operational characteristics of various recreational vehicles will be provided with laboratory experience in the operation and utilization of these vehicles and their special equipment. Prerequisite: Valid driver's license.

4200. Transportation Systems/(3).F;SS.

An overview of the broad area of transportation systems with emphasis on the highway transportation system. The basic characteristics and functions of traffic engineering applicable to driver and traffic safety education are considered.

4210. Laboratory Programs in Driver Education/(4).F;S.

An in-depth study of the content, methods, techniques, and materials in simulation and off-street multiple-car driving range instruction. Simulation and range teaching experience provided. Prerequisite: TSE 3210 or permission of instructor.

4750. Administering the School Safety and Driver Education Programs/(3). S;SS.

Administrative and supervisory aspects of driver and safety education programs at the local, state, and national level. Includes federal programs in driver and safety education. Prerequisites: TSE 4210 or permission of instructor, senior or graduate classification.

Department of Home Economics

Josephine A. Foster, Chairman

The undergraduate programs for home economics students provide both liberal and professional education and contribute to personal development, preparation for effective citizenship and community participation and prepare for professional careers in home economics.

Majors in home economics education, leading to a Bachelor of Science degree and teacher certification, and Home Economics in Business, leading to a Bachelor of Science degree with options in Institutional Administration, Food and Equipment, and Clothing and Textiles, are offered within the department.

A common core of subjects in liberal education, as well as home economics, is required of all majors. The general education curriculum is designed to provide instruction in the natural and social sciences, the arts and humanities, and in general home economics areas. In all programs, families and families as consumers are the primary focus. The home economics curriculum, based on the general education studies, relates basic knowledge to an understanding of familial needs with regard to food, clothing, housing,

management of resources and human interactions and relationships. The program offers professional preparation for careers in home economics, for entry into continuing education programs, and graduate study.

The Lucy Brock Nursery School is conducted as a laboratory for home economics majors and as a means of observation for students in courses in other departments.

Home Management Residence is offered each semester and is a requirement for home economics education and food and equipment majors. The residence course may be elected by majors in home economics in other options when space is available.

A minor in home economics consists of 16 semester hours scheduled in conference with the department chairman. Courses for the minor will be designed predominantly in specialized areas.

Entry level courses and upper level courses, where prerequisites are met, are open to all students.

A major in home economics education leading to the Bachelor of Science degree and teacher certification requires 46 semester hours in home economics: 1000, 1100, 1200, 1201, 1300, 1400, 2000, 2001, 2100, 2200, 2300, 2350, 2600, 3001, 3100, 4350, 4400, 4700, 4701; 12 semester hours in the following related courses: Art 1001 or 1002; Chemistry 1101-1102; and 22 semester hours of professional courses: Secondary Education 3040, 3050, 3130, 4070; Psychology 3301 and 3302.

The major in home economics in business leading to the Bachelor of Science degree has three options from which to choose.

OPTION I—Institutional Administration, requires 45 semester hours in home economics: 1000, 1100, 1200, 1201, 1300, 1400, 2100, 2200, 2350, 2600, 3100, 3200, 3201, 3202, 3203, 4200, 4201, 4202, 4203, 4400, 4800; 29 semester hours in the following science courses: Biology 1101, 3301, and 3308; Chemistry 1101-1102, 2201-2202; and Biochemistry 4580-4581 and 16-18 semester hours in the following related courses: Accounting 2100; Psychology 3302, and 4670 or 4671; Anthropology 2215 or Sociology 2201; and Computer Science 2430 or Mathematics 3810.

The Institutional Administration major is approved by the American Dietetic Association and upon graduation the student is qualified for an internship in an accredited hospital, thus becoming eligible for ADA membership. (The minor for this major may be satisfied by completion of Biology 3301, 3308; and Chemistry 2201-2202,and 4580-4581.)

OPTION II—Foods and Equipment, requires 40-44 semester hours in home economics: 1000, 1100, 1200, 1201, 1300, 1400, 2000, 2001, 2100, 2200, 2300, 2350, 2600, 3100, 4350, 4400, 4701, 4800; 20 semester hours in the following related courses: English 2050; Art 1001, 2016; Business Administration 3050, 3250, and 4610; and Speech 2101.

OPTION III—the Clothing and Textiles Merchandising option requires 44 semester hours in home economics: 1000, 1100, 1200, 1201, 1300, 1400, 2000, 2001, 2100, 2200, 2300, 2350, 2600, 3001, 3100, 4001, 4002, 4400, 4800 and 25 semester hours in the following related areas: Art 1001 or 1002 and 2008; Chemistry 1101-1102; Economics 2010, 2020; Business Administration 3050, 3150. (An additional eight semester hours of specified courses may be used to complete a minor in business administration.)

Courses of Instruction in Home Economics

(For a description of the notation used in the following list of courses, see page 42.)

1000. Clothing and Man/(2).F;S.

An introductory study of the nature and importance of cultural, aesthetic, economic, social and psychological aspects of clothing which affect consumer selection and use for individuals and families. Lecture two hours.

1100. Development and Relationships I: Conception Through Preschool Years/(3).F;S.

A study of the development of children from conception through beginning school age, incorporating the psychosocial, physical and cognitive components of development and relationships. Lecture two hours, laboratory two hours.

1200. Nutrition and Man/(2).F;S.

Basic foundation in nutrition and its relationship to problems in the provision of adequate and acceptable nutrients for the individual and for populations under various environmental conditions. Lecture two hours.

1201. Food Selection and Preparation/(2).F;S.

The study and application of the basic principles involved in the selection and preparation of foods. Lecture one hour, laboratory two hours.

1300. Housing and Man/(2).F;S.

Concerned with individual and family aesthetic, social, economic, and psychological values and needs specifically related to the spatial environment as an economic and social process. Emphasis is on the principles of, the resources for, and the dynamics of space planning. Lecture two hours.

1400. Professional Orientation: Freshmen/(0).F;S.

Factors and personalities influencing the history of home economics; present status of the discipline, future responsibilities and career opportunities. Lecture one hour. Required for all home economics majors.

2000. Consumer Textiles/(4).F;S.

Consideration of textile fibers and fabrics from the viewpoint of the consumer. Factors related to raw materials, comparative quality, performance and cost of textiles used in apparel and home furnishings. Lecture two hours, laboratory four hours.

2001. Clothing Construction/(3).F;S.

Theories and principles of garment design and structure in relation to figure types and posture, including their application in construction and fit of apparel for men and women. Prerequisite: HEC 2000. Laboratory six hours.

2100. Development and Relationships II: Middle Childhood Through Young Adulthood/(2).F;S.

Developmental aspects and interaction processes of young persons from early school years through young adulthood. Environmental influences on characteristics will be emphasized. Prerequisite: HEC 1100 or approval of instructor. Lecture two hours.

2200. Meal Management/(3).F;S.

Designed to develop skills in planning, preparing, and serving meals for family needs and special occasions. Prerequisite: HEC 1201. Lecture one hour, laboratory four hours.

2300. Furnishings and Interiors/(3).F;S.

A study of furnishings, materials, and accessories for individual and family living space. Prerequisites: HEC 1300, 2000. Lecture two hours, laboratory two hours.

2350. Equipment For The Home/(2). F;S.

A study of equipment in relation to production, selection, arrangement, and use for home living. Lecture one hour, laboratory two hours.

2500. Independent Study/(1-4).F;S.

2600. Family Economics/(3).F;S.

A study of the management of human and material resources designed to develop competence as consumers of goods and services in a modern economic society. Lecture three hours.

3001. Flat Pattern Design/(3).F;S.

The use of commercial basic patterns in developing slopers for use in designing garments in relation to figure problems and current fashion trends. Prerequisite: HEC 2001. Lecture one hour, laboratory four hours.

3100. Development and Relationships III: Adulthood Through Aging/(3). F;S.

Developmental aspects of the aging process from beginning adulthood to death with emphasis on relationships and environmental influences. Prerequisites: HEC 1100 and 2100 or consent of instructor. Lecture one hour, laboratory two hours.

3200. Quantity Cookery/(4).S.

A study and practice in planning, preparing and serving foods in institutional kitchens. Prerequisite: HEC 2200. Lecture one hour, laboratory six hours.

3201. Organization and Management/ (2).F.

Problems in personnel management. Emphasis on business organization, personnel relationships, and keeping records. Lecture two hours. Offered in 1976-77.

3202. Food Production and Purchasing of Foods/(2).F.

Grading, storage and purchasing of foods in large quantities. Lecture two hours. Offered in 1976-77.

3203. Institutional Equipment/(2).S.

Selection, use and care of institutional equipment. Lecture one hour, laboratory two hours. Offered in 1976-77.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatifactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4001. Fashion Merchandising/(2).F.

Fashion fundamentals applicable to merchandising of fashion. History of fashion, fashion designers, and manufacture and marketing of fashions will be emphasized. Lecture two hours.

4002. Merchandise Display and Promotion/(2).S.

Effective promotion of merchandise through the use of displays and other presentations. Students work with area merchants in displaying merchandise. Lecture one hour, laboratory two hours.

4200. Advanced Nutrition/(2).F.

The scientific planning of adequate dietaries for normal individuals of different economic levels as related to health and efficiency. Prerequisite: HEC 1200. Lecture one hour, laboratory two hours.

4201. Advanced Foods/(2).S.

Aesthetics of food as related to family meals; economic considerations and the application of scientific principles in distinctive cuisine. Prerequisite: HEC 1201. Lecture one hour, laboratory two hours.

4202. Experimental Food Study/(2).S.

Testing theories of food preparation, judging of products, and establishing standards. Prerequisite: HEC 1201. Lecture one hour, laboratory three hours.

4203. Diet in Disease/(2).S.

Nutrition in the treatment of disease. Changes in metabolism and their relationship to dietary requirements and food intake. Prerequisite: HEC 4200. Lecture two hours. Offered in 1976-77.

4350. Management Within the Home/(4).F;S.

A study of the theory and application of management principles with emphasis on experiences in the management of resources to realize individual and group goals. Prerequisites: HEC 1201, 2200, 2350, and 2600. Lecture one hour, laboratory six hours.

4400. Senior Seminar/(0).F;S.

Home economics in the professional world and continuing education—job opportunities, interviews, and professional ethics. Development of credentials and portfolios. Lecture one hour. Required of all seniors majoring in home economics.

4700. Occupational Education/(3).F;S.

A survey and analysis of occupations related to home economics with emphasis on program planning and techniques of teaching. Prerequisites: SE 3040, 3050; and PSY 3301. Lecture three hours.

4701. Demonstration Techniques/(2). F;S.

The application of effective demonstration techniques as a means of communication. Prerequisites: HEC 2200 and 2350. Laboratory four hours.

4800. Field Experience/(3).F;S;SS.

An opportunity for students to have in-field experience or employment in the area of the student's interest: (a) clothing and textile merchandising; (b) institutional administration; (c) child and family; (d) living space. Supervision and evaluation by the employer and a faculty member. Grade of S or F determined by the faculty member.

Department of Industrial Arts and Technical Education

Frank R. Steckel, Chairman

The Department of Industrial Arts and Technical Education provides study programs of technology of our industrial society. The curriculum consists of a series of courses which include learnings related to planning and design, manufacturing, servicing, communications, power, and construction. Through the pursuit of these areas, the student develops a high degree of skill in the performance of the processes involved in these areas. These experiences result in practices that are relevant to the learner and consistent with identifiable needs of an individual.

The Industrial Arts and Technical Education curriculum includes those kinds of knowledge, experiences, and concepts which develop the learners' capacity to interpret and manage the technological society of the future rather than knowledge and experiences peculiar to a time or place. Industrial Arts and Technical Education, therefore, is predicated on the following:

1. The need to understand and manage the systems and products of technology.

2. The need to include motivational activity as an integral process of education.
3. The need to be an informed, productive, and involved citizen.
4. The need to have a positive sense of one's self, which relates to good mental health and personal well-being.

The Industrial Arts and Technical Education Department offers the following degree programs:

Bachelor of Science degree with teacher certification
Bachelor of Science degree without teacher certification
Bachelor of Technology degree for graduates of two-year technical institutes
Minor in industrial arts on the undergraduate level
Master of Arts degree for secondary school teachers
Master of Arts degree for junior college teachers
Minor in industrial arts on the graduate level

A major in industrial arts leading to the Bachelor of Science degree and teacher certification consists of 46 semester hours including 1001; 2005; four semester hours from 2006-2016-2026-2036; 2004; 3003; 2002; 4008; 4009; 4559; six semester hours in advanced courses from each of at least two areas, one year of Physics 1101 and 1102 or Chemistry 1101 and 1102, Mathematics 1010; and four semester hours of industrial arts electives.

A major in industrial arts leading to a Bachelor of Science degree *without teacher certification* consists of 40 semester hours, the courses to be selected in conference with the student. A minor in Business Administration is strongly recommended.

The requirements for a Bachelor of Technology degree are listed under the College of Education.

A minor in industrial arts leading to the Bachelor of Science nonteaching degree consists of 16 semester hours, the courses to be selected by the student in conference with the chairman or designated advisor.

The requirements for a major in industrial arts leading to the Master of Arts degree total 24 semester hours in industrial arts, and include 5009, 5019, 5039, and 5550. The minor determines the kind of teacher certification; secondary school teacher or junior college teachers; a minor in secondary education is needed for G-1 certification.

The requirements for a minor in industrial arts and technical education on the graduate level include 5009, 5019, 5039, and electives to total 16 semester hours.

Courses of Instruction in Industrial Arts and Technical Education

(For a description of the notation used in the following list of courses, see page 42.)

1001. Technical Drawing/(4).F;S;SS.

Fundamentals of technical drawing including: lettering; geometric construction; sketching; size and shape description; orthographic projections; sections and conventions; auxiliary views, revolutions; dimensions and tolerances; threads and fasteners; developments and intersections; descriptive geometry; and, pictorial and working drawings. Lecture two hours, laboratory four hours.

2001. Technical Illustration/(2).F;SS.

Techniques of pictorial illustration including: sketching; inking and shading; airbrush techniques; airbrush rendering; finished illustrations; and, pictorial drawings. Prerequisite: IA 1001. Lecture one hour, laboratory two hours.

2002. Graphic Arts/(4).F;S.

An exploratory in the basic areas of letterpress printing and photo-offset lithography. Auxiliary areas are the study of type styles, composition techniques, paper technology, printing mathematics, industrial photography, plate manufacture, copier technology and binding techniques. Lecture two hours, laboratory four hours.

2004. Introduction to Metals Manufacturing/(4).F;S.

Experience centered exploration into the subfields of metals manufacturing with emphasis given to both the unique and supportive roles the metals industry plays in the total industrial scheme. Specific areas to be covered are: the nature and characteristics of metals, machine tool operations, sheet-metal work, foundry, forging, heat treatment, welding, and bench operations. Lecture two hours, laboratory four hours.

2005. Wood Technology/(4).F;S.

Introduction to woodworking with wood and the woods industry; care and use of basic woodworking tools and machines; processes and techniques involved in the planning, designing, jointing, shaping, and finishing of wood materials in the furniture industry. Lecture two hours, laboratory four hours.

2006. Leather/(2).F;S;SS.

Basic processes and techniques involved in working with leather, with emphasis on design and skill. Lecture one hour, laboratory two hours.

2008. Plastics Technology/(2).F.

An introduction to Industrial Plastics with a concentration on thermoplastic materials. Processes included materials identification, injection molding, rotational molding, lamination, thermoforming, foaming, fabricating, and finishing. Lecture one hour, laboratory two hours.

2011. Technical Design/(2).S;SS.

Processes and methods of design with emphasis on the designer's role in industry. Included are principles of design applied to planning, sketching, drawing and construction of projects and/or problems for all areas of Industrial Arts and Technical Education. Lecture one hour, laboratory two hours. Prerequisite: IA 1001.

2014. Machine Tool Technology/(2).F;S.

An in-depth experience centered examination of the machine tool manufacturing industry. This course will cover advance operations on the lathe, milling machine, grinder and shaper with individual problems emphasized. Lecture one hour, laboratory two hours.

2015. Advanced Wood Technology/(4).S.

Advanced work in the area of IA 2005 and a study of the residential building industry; the materials and processes

involved in the construction of homes and buildings. Preplanning of foundations, framing, sheathing, insulations, trusses and roofing, masonry work, finish carpentry work, environmental control, and man power needs. Lecture two hours, laboratory four hours. Prerequisite: IA 2005.

2016. Ceramics/(2).F;S;SS.

Basic processes and techniques involved in working with ceramics with emphasis on design and skill. Lecture one hour, laboratory two hours.

2024. Metals Technology/(2).S.

Concentrated experience centered examination of the nonmachine tool areas of metals technology. Emphasis will be placed on individual problem solving. Lecture one hour, laboratory two hours. Prerequisite: IA 2004.

2026. Art Metal/(2).S;SS.

Basic processes and techniques involved in working with art metal with emphasis on design and skill. Lecture one hour, laboratory two hours.

2036. Jewelry/(2).F;S;SS.

Basic processes and techniques involved in working with jewelry, with emphasis on design and skill. Lecture one hour, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.

3001. Architectural Drafting/(4).F;SS.

Ramifications of architectural drawing and design related to residential and commercial applications including: preliminary considerations; room planning; exterior design; working drawings; construction methods; coding; building specifications; and, architectural rendering. Prerequisite: IA 2001. Lecture two hours, laboratory four hours.

3002. Bookbinding/(2).F.

An exploratory of the methods of construction of standard types of books, pamphlets, and magazines. Emphasis is on common practices and materials. Lecture one hour, laboratory two hours.

3003. Introduction to Electricity/Electronics/(4).F;S.

An introduction to electricity and electronics which approaches the study of both passive and active components via experimentation and unit construction. The social and economical implications of the present technological advances are stressed. Lecture two hours, laboratory four hours.

3004. Welding/(2).F;S.

This course covers the basic information and skill in the areas of arc and oxy-acetylene welding. Lecture one hour, laboratory two hours.

3005. Production Techniques in Woods/(2).F.

Construction of jigs, fixtures, and related problems in production techniques and a study of the furniture industry. Lecture one hour, laboratory two hours. Prerequisite: IA 2015.

3007. Introduction to Power Mechanics/(4).F.

An introduction to the study of the power generation sources including power producing and control devices. Emphasis is on the small two and four cycle engines typical of lawnmowers, outboard engines, motorcycles, and overhaul and tune-up procedures. Lecture two hours, laboratory four hours.

3012. Screen Process Printing/(2).F;S.

An exploration of the construction of silk screen printing equipment and various methods and techniques of printing on different materials through various media. Lecture one hour, laboratory two hours.

3017. Transportation/(2).S;SS.

A study of the history and development of transportation devices and systems on the technology and society. Implications of transportation systems, land, sea, and air. Examination or regulations, economics and the emerging concerns for economical transportation of people and goods. Discussions, research, and field trips as practicable. Lecture two hours.

3023. Solid State Circuitry/(4).S;SS.

A study of the solid state device and its operating parameters and circuitry. Includes details on manufacturing and testing. Classroom activity consists of films and lecture. Laboratory activities

are experimental. Typical circuits and equipment are described for essentially all modern applications. Prerequisite: IA 3003. Lecture two hours, laboratory four hours.

3029. Man, Society, and Technology/(3). On demand.

A course dealing with the effects of technology upon man. The objective of the course is to aid all students in developing a degree of technological literacy and understanding of our complex society so they may better cope with their day-to-day living experiences.

3039. Materials/(2).S.

The structure, characteristics, testing, and application of common industrial materials. Also includes examination of strength of materials as it applies to all industrial areas. Lecture two hours, laboratory arranged. Prerequisites: MAT 1010 and either PHY 1101 and 1102 or CHE 1101 and 1102.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4008. Care and Maintenance of Equipment/(2).F;S;SS.

A study of preventative maintenance systems, and field experiences in the analysis of maintenance problems, mechanical, hydraulic, and electrical systems. Hand and machine tool repair, ordering, installing parts and machine testing for all areas of industrial arts and technical education. Lecture one hour, laboratory two hours. Prerequisite: Basic course in areas of concentrations.

4009. Organization and Equipment/(2). F;S;SS.

Planning and equipping industrial arts laboratories, budgets, sources of equipment and supplies, requisitions, storage. Lecture two hours.

4553. Research in Modern Electronics/(2).F;S;SS.

Individual problems in modern electronics to be determined by need, experience, and interest. Lecture one hour, laboratory two hours. Prerequisite: IA 3023.

4555. Contemporary Industrial Finishing/(2).F;S.

Care and maintenance of finishing equipment; selection and use of spray equipment; preparation of the surface to be finished; staining and filling undercoating, top coating, oil finishes, application of simple and synthetic finishes. Lecture one hour, laboratory two hours. Prerequisite: IA 2005.

4556. Problems in Leather Techniques/(4).F;S;SS.

An analysis of functional design and production methods of leather work. Individual projects designed to employ various technical and commercial methods of production. Lecture two hours, laboratory four hours. Prerequisite: IA 2006.

4559. History of Industrial Arts and Technical Education/(2).F;S.

A study of the history and development of industrial arts and technical education and a comparison of their relationships as well as the current trends of each. The course also deals with the federal and state legislation promoting the growth and development of technical education in the United States.

4560. Problems and Processes of Industrial Arts/(1-2).F;S;SS.

Individual research on problems determined by the student's need.

4564. Introduction to Metallurgy/(2).F.

Study of metals and alloys, physical characteristics, phase diagrams, relation of physical properties to microstructure. Lecture two hours, laboratory arranged. Prerequisite: IA 2004.

4565. Applied Furniture Design and Construction/(4).S.

The study of traditional and contemporary furniture, and its importance, design, and construction procedures. The student may design and construct a piece of traditional or contemporary furniture. Lecture two hours, laboratory four hours. Prerequisite: IA 2015.

4566. Problems in Ceramic Techniques/(4).F;S;SS.

An analysis of functional design and production methods of ceramics. Individual projects, designed to employ various technical and commercial methods of production. Lecture two hours, laboratory four hours. Prerequisite: IA 2016.

4571. Analysis of Drafting Problems/(2).F;S;SS.

Individualized instruction devoted to the study of special problems in drafting and design. Problems growing from individual needs of the student and meeting approval of the instructor are preferred. Prerequisite: Drafting concentration and permission of instructor. Lecture and laboratory arranged.

4574. Production Techniques in Metals/(2).S.

Jigs, fixtures, tools and die, and related production techniques. Utilization of and in all facets of industry, including management, production, and distribution. Lecture one hour, laboratory two hours. Prerequisite: IA 2004.

4582. Industrial Photo-Lithography/(3).S.

Advanced studies in cold-type composition (both photographic and mechanical) and offset press operation. A major emphasis is the area of industrial photography up to four color separation and printing; auxiliary areas are the use of test equipment for negatives, plates, and the technology of paper and its uses in the industrial scheme. Lecture one hour, laboratory four hours. Prerequisite: IA 2002.

4586. Problems in Jewelry Techniques/(4).F;S.

An analysis of functional design and production methods of jewelry. Individual projects designed to employ various technical and commercial methods of production. Lecture two hours, laboratory four hours. Prerequisite: IA 2036.

4592. Advanced Screen Process Printing/(3).S.

Advanced laboratory practice in transfer and direct photographic screen printing with emphasis on multicolor printing, cylinder printing and finishing techniques. Lecture one hour, laboratory four hours. Prerequisite: IA 3012.

Graduate Courses

5001. Industrial Design/(3).S;SS.

The design process through problem identification. Topics will include preliminary ideas, drafting standards and design refinement. Units will include: the design process; problem identification; design refinement; design finalization; and, implementation of design. Prerequisite: IA 2001 or equivalent. Lecture one hour, laboratory four hours.

5002. Photo-Offset Lithography/(3). On demand.

Individual problems in the advanced phases of industrial photography, film and lithographic plate preparation, cold-type composition, and offset press techniques. Lecture one hour, laboratory four hours. Prerequisite: IA 4582.

5004. Machine Design and Construction/(3).F.

The study of the machine design system, to include kinematics, simple machines, machine components, and strength of materials factors which effect the design and construction of machines. Lecture two hours, laboratory two hours. Prerequisite: IA 2004 or equivalent.

5005. Specialty Woodworking/(4).F.

Wood carving on flat, turned, and curved surfaces. Inlaying and marque-

try with synthetic and natural woods. Veneering flat and curved surfaces. Laminating with wood veneer, both flat and curved. The design and construction of jigs and fixtures for machines commonly found in industrial education shops. The use of common school shop machines for production by adapting the jigs and fixtures and special cutters. Design of projects using the above. Lecture two hours, laboratory four hours. Prerequisite: IA 4565.

5008. Industrial Arts for Elementary School Teachers/(2). On demand.

The role of the industrial arts teacher in the elementary school system. Concepts of career awareness. Implications of new relationships with industrial arts and elementary school programs. School visitations and observations. Development of simple activities in concurrence with elementary school programs and safety practices in tool operations. Lecture one hour, laboratory two hours.

5009. Philosophy of Industrial Arts Education/(2).F;SS.

The philosophy of industrial education from its beginning in manual training through contemporary programs in industrial arts and vocational education. Lecture two hours.

5011. Industrial Illustration/(3).F;SS.

An in-depth examination of technical illustration and sketching. Included will be freehand and template isometric drawing. Units will include: layout and construction methods; perspective, dimetric and trimetric drawings; airbrush applications, equipment, materials and techniques; and, finished illustrations. Prerequisite: IA 2001 or equivalent. Lecture two hours, laboratory two hours.

5012. Problems in Screen Process Printing/(3). On demand.

Individual problems in the advanced phases of silk screening multicolor on various media using photographic techniques and other current technology. Lecture one hour, laboratory four hours. Prerequisite: IA 4592.

5016. Advanced Jewelry/(2).F;S.

Individual problems in the advanced phases of jewelry design, production, and finishes. Lecture one or two hours, laboratory two or four hours.

5019. Design Methods and Techniques for Industrial Arts Laboratories/(2). S;SS.

The role of the project as a vehicle for learning. Preparation of instructional materials, record keeping, budget construction, and requisitioning of supplies. Lecture two hours.

5023. Communications and Control Electronics/(4).S.

Offers special coverage to modern communications concepts and of industrial control devices and polyphase power circuits, application, psychology, distribution systems, and social effects. Prerequisite: IA 3023. Lecture two hours, laboratory four hours.

5033. Digital Circuitry/(4).F.

A study of modern semiconductor devices, with emphasis on modern digital computer principles and circuitry. Uses and number systems are included with emphasis on solid state circuits which make up the digital machine. Prerequisite: IA 2032. Lecture two hours, laboratory four hours.

5036. Advanced Leather/(2-4).F;S;SS.

Individual problems in the advanced phases of leather design, production, and finishes. Lecture two hours, laboratory four hours. Prerequisite: IA 4556.

5039. Industrial Arts Curriculum and Facilities Development/(2).SS.

Planning and development of course content for the major areas of industrial arts, incorporating the prevailing philosophy and objectives of school systems. Factors of school laboratory planning, equipment selection, layout and arrangement and architectural considerations. Lecture two hours.

5066. Advanced Ceramics/(2-4).F;S;SS.

Individual problems in the advanced phases of ceramic design, production, and finishes. Lecture one or two hours, laboratory two or four hours. Prerequisite: IA 4566.

5500. Independent Study/(1-4).F;S;SS.

5505. Master of Arts Thesis/(2-4).F;S.

5530. Selected Topics/(1-3). On demand.

5560. Special Problems in Industrial Education/(1-2).F;S;SS.
Individual research. Areas to be determined by need, background, and interest. Prerequisite: Must have been admitted to candidacy.

5570. Skill Development in Major Areas/(2-4).F;S;SS.
Individual or group work in area competence. Technique and process in the craftsmanship of the transformation of materials. Prerequisite: Must have been admitted to candidacy.

Department of Military Science

William D. Hammond, Chairman

The Army ROTC program has been developed to give college men and women training and experience in the art of organizing, motivating, and leading others. It includes instruction to develop self-discipline, physical stamina, and bearing—qualities that are an important part of leadership and that contribute to success in any career.

The first two years of military training in the Reserve Officer Training Corps are strictly voluntary for any student, male or female, who is a United States citizen. An individual taking these ROTC courses incur absolutely no obligation to future military service. These two years comprise the Basic course, which is normally completed during the freshman and sophomore years. A student may attend a Basic Camp of six weeks duration following their sophomore year in lieu of attending the Basic Course.

The Advanced Course is offered on a voluntary basis during the junior and senior years to those cadets meeting the necessary qualifications. Upon successful completion of the Advanced Course, which includes the ROTC Advanced Camp which is six weeks' duration at Fort Bragg, North Carolina normally taken between the junior and senior year, each cadet is commissioned as a second lieutenant in the U.S. Army Reserve. Outstanding students designated as Distinguished Military Students may be selected for direct appointment in the Regular Army.

A minor consists of 16 semester hours in military science including 3001, 3002, 3003, 4001, and three semester hours from a 3000 or 4000 level course in political science, psychology, or sociology. A semester of student teaching may be substituted for the latter three hours.

Two-, three-, and four-year scholarships are offered by the Department of the Army. Further details are listed in the financial aid section of this catalog.

Basic Course Requirements

A candidate for ROTC training must:

a. Be of good moral character.

b. Be a citizen of the United States.

c. Be able to graduate before 28 years of age.

d. Be physically able to participate in the program of instruction.

e. Be enrolled as a freshman at this institution.

f. Meet other entrance requirements as determined by the department chairman, current Army regulations, and university policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine if waivers can be granted.

A waiver of attendance of Military Science I, Military Science II, and/or Military Science III may be granted for previous ROTC training or military service and upon application in accordance with the following:

a. Active Military Service or Attendance at Services Academies

One Year ..... Waiver of MS I and MS II
Additional Training ..... As determined by the PMS but not to exceed MS III

b. Junior Division ROTC Training

Two Years ..... Waiver of MS I
Three Years ..... Waiver of MS I and MS II

c. All Senior Division ROTC (Air Force, Army, and Navy) is equated on a year-for-year basis.

d. Students with combinations of the above or with National Defense Cadet Corps training should consult with the department chairman to determine individual eligibility for waivers.

Texts and Uniforms

Basic course students do not receive monetary allowances. Texts and uniforms are furnished by the government. Students will be required to reimburse the government for loss of items of the uniforms or other equipment.

Advanced Course Requirements

A candidate must:

a. Have a minimum of two years remaining at the university.

b. Meet all other requirements for the Basic Course.

c. Meet medical requirements for Advanced Course.

d. Possess qualifications for becoming an effective Army officer.

e. Achieve a passing score on ROTC qualifying examination.

f. Have satisfactorily completed the Basic Course, received a waiver in lieu thereof, or have satisfactorily completed the Basic Camp.

g. Have satisfactorily completed loyalty requirements.

h. Agree to enlist in the United States Army Reserve, accept a commission if offered, and serve two years on active duty if required.

i. Meet other requirements as determined by the department chairman, current Army regulations, and university policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine whether waivers can be granted.

Texts and Allowances

Each cadet enrolled in the Advanced Course receives subsistence pay at the rate of $100.00 per month. Textbooks and uniforms are furnished to all cadets. They are paid a travel allowance to and from Advanced Camp. While at camp, cadets are paid at the rate of approximately $315.00 per month. The pay and allowances received while in the Advanced Course total approximately $2,500.00.

Courses of Instruction in Military Science

(For a description of the notation used in the following list of courses, see page 42.)

1001-1002. Military Science I, Basic Course/(1-1).F-S-SS.

Basic military subjects with emphasis on US Army and ROTC organization, objectives of the Army, leadership and management, individual weapons and marksmanship, principles of war, evolution of weapons and tactics, rules of warfare.

Leadership Laboratory (2 hours) — Consists of skill training and confidence building in subjects such as rappelling, stream crossing, assault boat training, aircraft orientation, military weapons firing, and night compass course, orienteering, and other selected subjects.

2001-2002. Military Science II, Basic Course/(2-2).F-S-SS.

Use of maps and aerial photographs. American military history, and an introduction to small unit operation and tactics. Prerequisites: MS 1001-1002 and MAT 1010 (or equivalent) or permission of department chairman. Lecture two hours, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.

3001-3002. Military Science III, Advanced Course/(3-3).F-S.

Leadership, military teaching, principles, branches of the Army, small unit tactics, communication, and precamp orientation. Prerequisite: Successful completion of MS I, MS II, selection by department. Lecture three hours, laboratory two hours.

3003. ROTC Summer Camp, Advanced Course/(6).SS.

Normally taken summer following junior year. Training conducted at designated US Army installation. This training provides cadets with practical experience in leadership, military teaching, small unit tactics, weapons qualifications, and communications. To receive credit, a student must register and pay a fee at the university. Prerequisite: Successful completion of MS III.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics—Military Science/(1-3). On demand.

A flexible program of reading, study, planning, and writing designed to meet the needs of individual cadets or military officers in the field of Military Science. Prerequisite: MS 4001 or a commissioned officer in the US Armed Forces. Permission of department chairman is required.

4001. Military Science IV, Advanced Course/(4).F;S.

A study of operation, logistics, army administration, military law, role of US in world affairs, service customs, and officer orientations. Characteristics, attributes, and responsibilities of commissioned officers. Fourth-year cadets normally serve as officers in cadet brigade. Prerequisite: MS 3001-3002. Lecture four hours, laboratory two hours.

4002. Military Science IV, Flight Training-Ground School/(2).F*.

The course consists of 35 hours of ground instruction at an approved civilian flying school. Students must take the Federal Aviation Agency written examination.

4003. Military Science IV, Flight Training-Inflight Instructions/(1). On demand*.

This course consists of 36½ hours of inflight instruction to include presolo, basic instruments, solo, and cross-country flying; final check by flight instructor and check by Federal Aviation Agency (FAA) inspector. Upon successful completion of MS 4002 and 4003, students who are eligible may apply for an FAA private pilot's license.

Department of Music

Frank Carroll, Chairman

The Department of Music is a member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The objectives of the Department of Music are to provide: the best possible preparation of performers in different areas of music; teachers of music for the public schools and institutions of higher learning; training for the classroom teacher in the organizing and conducting of a well-balanced music program; music experiences and activities in which the music major as well as the general student can increase his skills, knowledge, and appreciation of music to contribute to the cultural tone of the university and community through the presentation of a variety of public programs and concerts.

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* These courses comprise a flight training program. The U.S. Government will pay the expense for this training for qualified ROTC cadets. Any student enrolled at Appalachian State University may take the courses provided he personally pays for the training.

Entrance Requirements and Placement Examinations for Freshmen

1. Applied Music: An audition is required of all entering freshmen and transfer students.

   The entrance requirements in the major performance medium are as follows:

   Voice: An acceptable voice and the ability to sing with accurate pitch and rhythm.

   Piano: The ability to perform major and minor scales and arpeggios and compositions of the difficulty of Bach, *Two-Part Inventions;* Beethoven, *Sonata Op. 49;* Chopin, *Mazurka, Op. 33, No. 3.*

   Instruments: A fundamental knowledge of the instrument including an acceptable method of producing tone; awareness of intonation problems; accurate rhythmic feeling; some contact with solo literature available for the instrument; the ability to play major, minor, and chromatic scales with the proper fingering.

   Those who do not meet freshman standing must enroll in remedial level applied music until entrance requirements can be met.

2. Theory: Freshmen and transfer students who plan to major in music take a placement examination to determine their general musical knowledge. Those who do not meet freshman standing must enroll in Music 1000. For specific information write the department chairman.

Entrance Requirements and Placement Examinations for Graduate Students

All entering graduate music majors will demonstrate by examination their skills and abilities in music theory, music history and literature, performance major and music education where it applies. Any deficiency noted may require courses or individual study in the area of the deficiency prior to admission to candidacy for the degree.

Degree Programs

The Department of Music offers programs under the Bachelor of Arts degree, the Bachelor of Music degree, and the Master of Arts degree.
A major in music leading to the Bachelor of Arts degree consists of 40 semester hours above the general education requirements, including 1001, 1002, 1500, 2001, 2002, 3001, 3002, eight semester hours of applied music and eight semester hours of ensembles.

A minor in music consists of 16 semester hours above general education requirements, the courses to be selected in conference with the student.

The Department of Music offers a professional Bachelor of Music degree which offers a flexible curriculum that can be tailored to fit the needs of the individual student. Courses are available so that a student may prepare himself to pursue a career in several areas of the music profession or to prepare for graduate study. (The music education program leads to teacher certification.)

The student will select courses in consultation with an advisor who will seek to guide the student in choosing courses which will best serve his professional aspirations.

Requirements for the degree above the general education requirements include selected courses in professional education (music education program only), applied music (including a senior recital for music education majors and a junior and senior recital for performance majors), music theory and music literature.

A student must earn a total of 122 semester hours, 72 of which must be completed in the Department of Music (60-63 hours for music education majors).

Courses of study for students desiring to pursue music education, a performance career in piano, organ, voice, band or orchestral instruments, and other areas in the music profession will be supplied by the chairman of the Department of Music.

The Department of Music offers a Bachelor of Music with a specialization in music merchandising. This program is to serve musicians who wish to enter retail or wholesale merchandising, publishing, recording, instrument repair, or other phases of commercial music. Culminating the degree program is an internship with a commercial firm in which the student will receive on-the-job experience in the various aspects of the firm's operation. The program features a flexible curriculum, including in addition to general education requirements, courses in music, business, psychology and speech. Fifty-four semester hours are required in music, including Music 1001, 1002, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1041, 3030, 4613, 4614, seven hours of applied music and 3400, Internship in Music Merchandising. Required courses in the College of Business are BA 3050, 3250, 4210, 4220, and ECO 2010. Required courses in psychology are 2201, 4551, and 4670. Required courses in speech are 1100 and 3151.

A major in music leading to the Master of Arts degree in public school music consists of 30-36 semester hours including Music 5000, 5020, 5031 and Secondary Education 5032. The major leading to the Master of Arts degree in junior college teaching consists of 24 hours (with thesis) or 30 semester hours without thesis, including Music 5000, 5020, and 5031. Additional requirements for both advanced degrees may be obtained from the chairman. The graduate student must demonstrate proficiency or take courses in music history or literature, theory, applied music, conducting and/or music education.

Proficiency in Major (Principal) Performing Medium

During the senior year a music major will demonstrate satisfactory proficiency in his major (principal) performing medium: piano, voice, violin, clarinet, or other band or orchestral instrument. This may be done in one of two ways: (1) an individual recital or (2) a group recital with no more than three participants.

All music majors are required to attend a weekly performance seminar and each major is required to perform in the seminar at least once during the academic year. At the discretion of the instructor, freshmen may be excused from performing.

Comprehensive Evaluation of Musicianship

Before a music major may be accepted for upper division work in music, he shall demonstrate satisfactory attainment in musicianship. Failure will necessitate a reevaluation by the entire music faculty before the student can be accepted unconditionally.

Recital and Concerts

Student seminar and studio recitals are held each week to provide experience and poise in public performance. Seniors and other advanced students present individual or joint public recitals to provide further performance skills. Frequent concerts are given by faculty, various musical organizations and visiting artists.

It is desirable that music majors, undergraduate and graduate, attend all concerts and recitals sponsored by the Department of Music.

Applied Music

Individual music instructing is offered in piano, organ, voice and all orchestral and band instruments. Courses in applied music are required of all music majors.

Piano. The piano major or principal should develop the ability to sight read, play accompaniments in a musical manner, and perform representative works from all periods of music, from the pre-Bach to the present.
Voice. The voice major or principal should be able to sing on pitch and show musical aptitude. Study will include good posture, relaxation, diaphragmatic breathing, good diction and vocal exercises, and appropriate songs adapted to the student's needs.

Organ. Piano facility which satisfies the instructor is a prerequisite for study in organ. The study includes pedal scales, hymn playing, appropriate selections from the works of Bach, Mendelssohn, Franck, and Widor, as well as contemporary European and American compositions.

Brass and Woodwind Instruments. This study emphasizes proper breath control, embrouchure, and position, as well as good tone production and

intonation. Materials and literature will be chosen on the basis of the student's ability and progress.

String Instruments. The purpose of string instruction is to promote in the student the basic techniques of good intonation, clarity and refinement of fingering and bowing styles, and the development of tonal beauty. Emphasis is placed upon the importance of phrasing and interpretation.

Percussion Instruments. The student expecting to major in this area should have a background of the basic rudiments in snare drum and sufficient experience and preparation of the other percussion instruments to play a standard band composition. The first year of study emphasizes the snare drum and the twenty-six rudiments along with suitable solo literature. The remainder of the time is devoted to the tympani and other traps and equipment, with the main emphasis placed upon the marimba.

Courses of Instruction in Music

(For a description of the notation used in the following list of courses, see page 42.)

Applied Music (Secondary)
0301-0399; 1301-1399; 2301-2399; 3301-3399; 4301-4399/(1-1).F,S,SS.

One 30-minute individual lesson and six practice hours per week. Additional fee.

Applied Music (Major-Principal)
0301-0399; 1301-1399; 2301-2399; 3301-3399; 4301-4399/(2-4).F,S,SS.

Two 30-minute individual lessons or equivalent in individual and/or class lessons and six practice hours per week for each semester hour credit. Additional fee.

1000. Elements of Music Theory/(3).F.

Course 1000 is designed for students below the freshman level and carries General College, Elementary Education and music minor credit but no credit toward music major degrees. Lecture and demonstration five hours.

1001-1002. Basic Musicianship I and II/(4-4).F-S.

A course in the fundamentals of music integrating basic materials and skills. Chord progression, altered chords, seventh chords, cadences, nonharmonic tones, modulation, and secondary chords are approached through integrated avenues of writing, performing, and creating. Lecture and demonstration five hours.

1030. String Class/(2).F.

A presentation of the fundamental principles involved in playing and teaching stringed orchestral instruments. Lecture and demonstration two hours.

1031. Advanced String Class/(1).S.

A continuation of the fundamentals involved in playing and teaching stringed orchestral instruments with the addition of stringed and full orchestra music reading. Emphasis is placed on exploration of string literature and bowing problems found in the music of elementary and secondary schools. Prerequisite: MUS 1030.

1032. Percussion Class/(1).S.

Group instruction in the fundamental principles of performance on the standard percussion instruments. Laboratory one hour.

1033. Brass Class I/(1).S.

Group instruction in the fundamental principles of trumpet and trombone technique. Laboratory one hour.

1034. Brass Class II/(1).F;S.

Group instruction in the fundamental principles of horn, euphonium, and tuba technique. Laboratory one hour.

1035. Woodwind Class I/(1).S.

Group instruction in the fundamental principles of clarinet and saxophone technique. Laboratory one hour.

1036. Woodwind Class II/(1).F.

Group instruction in the fundamental principles of flute, oboe and bassoon technique. Laboratory one hour.

1037. Voice Class I/(1).F;S.

A presentation of the fundamentals of singing for teaching and performance.

1038. Voice Class II/(1).S.

A continuation of materials covered in Music 1037 but with more emphasis on individual problems. Prerequisite: MUS 1037.

1040. Piano Class I/(1).F.

Group instruction in the fundamental principles of piano technique. Laboratory one hour.

1041. Piano Class II/(1).S.

Group instruction in piano technique. Prerequisite: MUS 1040.

1042. Guitar Class I/(1).F;S.

Group instruction in the fundamental principles of playing the guitar. A special rental fee of $13.50 is charged each semester for the use of the guitar. Laboratory one hour.

1043. Guitar Class II/(1).S.

Group instruction in intermediate level guitar. A special rental fee of $13.50 is charged each semester for the use of the guitar. Laboratory one hour. Prerequisite: MUS 1042.

1044. Diction/(2).S.

The principles and practice of Italian, German and French pronunciation as applied to vocal music in regard to performing and teaching.

1500. Performance Seminar/(0).F;S.

A weekly seminar in solo recitals covering all aspects and problems of public appearances. Required of all music majors.

2001. Structure, History and Literature of Music I(4).F.

A comprehensive study of music history and literature from the beginning of the 14th Century through early Baroque, approximately 1650. The practices of the composers of the 16th Century are studied in detail through the writing of modal counterpoint and an approach is made to the forms of the Baroque. Lecture and demonstration six hours. Prerequisite: MUS 1002.

2002. Structure, History and Literature of Music II/(4).S.

A continuation of Music 2001 with the emphasis placed upon the Baroque and Classical periods to Beethoven's death. Eighteenth Century counterpoint is studied through the writing and analysis of the canon, invention and the fugue. The study of form and analysis is begun at this time. Lecture and demonstration six hours. Prerequisite: MUS 2001.

2003. Fundamentals of Composition/(2). On demand.

A course in composition designed to provide writing experience in the important musical forms. Prerequisite: MUS 1002.

2004. Liturgies and Hymnody/(3).S.

A study of the history of worship in the Jewish, Eastern Orthodox, Roman Catholic, and Protestant traditions. Included will be a study of the hymn as it is used in the church's worship.

2011. Introduction to Music/(3).F;S;SS.

A nontechnical course designed for students with little or no musical background. Emphasis is placed on the style and form of music as perceived by the listener. (Humanities.)

2012. Humanities—Music, Art and Ideas I/(3).F.

A survey course of an interdisciplinary nature concentration upon man's relationship to his environment. This includes man's relationship to man, to nature and to God. The first half of the course concentrates upon the Byzantine through the Renaissance periods. Prerequisite: MUS 2011 or ART 2011. (Same as ART 2012.)

2013. Humanities—Music, Art and Ideas II/(3).S.

A continuation of Music 2012, this second half of the course concentrates upon the Baroque through contemporary times. Prerequisite: MUS 2011 or ART 2011. (Same as ART 2013.)

2020. Creative Music for the Classroom Teacher (Humanities)/(3).F.

A course designed for the student who plans to become a classroom teacher in the elementary school. It presents an integrated approach to developing functional musicianship through listening, reading and writing musical notation, analyzing and creating music. The emphasis is on understanding music and being able to make use of this knowledge in the classrooms.

2021. Music Methods for the Classroom Teacher/(3).S.

The music elements learned in Music 2020 will be used in studying materials and methods in the elementary classroom. A variety of musical activities will be presented which are suitable for all ages of elementary children. Prerequisite: MUS 2020.

2022. Internship in Elementary Music Education/(1).F;S.

This course, to be taken concurrently with Elementary Education 2035 is required of music majors who wish to major in music education. This course involves actual participation and observation in the neighboring elementary schools.

2023. Internship in Secondary Music Education/(1).S.

This course, taken concurrently with Secondary Education 2040, is required of all music education majors. Involved will be actual teaching and observation in the neighboring secondary schools.

2030. Instrumental Playing Techniques (For General Music Education Majors)/(1).F.

Group instruction in the fundamental principles of playing one representative orchestral instrument in each of the following categories: woodwind, brass, percussion and string. Laboratory one hour.

2031. Choral Literature I/(2).F.

A survey of representative choral literature from the Renaissance through the Baroque with special emphasis upon materials suitable for secondary and college groups.

2032. Choral Literature II/(2).S.

A continuation of Choral Literature I covering the periods from the Classic through the Modern.

2040. Advanced Piano Class I/(1).F.

Group instruction in piano technique. Prerequisite: MUS 1041. Laboratory one hour.

2041. Advanced Piano Class II/(1).S.

Group instruction in piano technique. Prerequisite: MUS 2040. Laboratory one hour.

2500. Independent Study/(1-4).F;S;SS.

3001. Structure, History and Literature of Music III/(4).F.

A comprehensive study of the literature and history of music from Beethoven through Post-Romanticism. The study of form and analysis is continued with major emphasis placed upon the larger forms. Lecture and demonstration six hours. Prerequisite: MUS 2002.

3002. Structure, History and Literature of Music IV/(4).S.

The literature of the early 20th Century to the present is approached through analysis, the various techniques of composers and composing in several styles. Lecture and demonstration six hours. Prerequisite: MUS 3001.

3004. Organ Literature and Service Playing/(3).F.

A survey of the main stream of organ literature from the 15th Century to the present. Laboratory experience in playing for services of worship including chant accompaniment, hymn playing, anthem accompaniment and simple improvisation.

3030. Conducting/(2).F.

A study of the fundamentals and techniques of conducting with supervised conducting experience in choral and/or instrumental ensembles. Lecture and demonstration three hours.

3400. Internship in Music Merchandising/(8).F;S;SS.

The internship will be done off campus in the employ of a cooperating music dealer. The intern will receive compensation and will be responsible for certain duties in return for this. The dealer will work closely with ASU faculty evaluating the intern.

3500. Independent Study in Music/(1-4).F;S;SS.

3510. Honors Independent Study in Music/(1-3).F;S;SS.

Special research or projects which the honors student in music will pursue in lieu of required courses in the music curriculum.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3).F;S.

A course with variable content which may be repeated for credit. Topics will include special areas of music theory, music literature, and music education.

4001. Arranging/(2).S.

A study of the treatment of voices and instruments of the band and orchestra in regard to range, tone quality and appropriate use in ensembles, including practice in arranging. Lecture and laboratory three hours. Prerequisite: MUS 1002.

4004. Organization and Philosophy of Church Music/(2).F.

Organizational principles of a comprehensive church music program, including a study of the philosophy of the art form of music as it relates to theological concepts.

4005. Church Music Field Work I/(0-1). On demand.

The student will be responsible for all or part of a music program in an organized local church. Periodic visits to the church will be made by the professor who will attend rehearsals or services, and evaluate the student's work. Private or group conferences will be held with the professor, who will give guidance to the student.

4006. Church Music Field Work II/(0-1). On demand.

A continuation of MUS 4005.

4030. Seminar in Music Education/(1).S.

Especially designed for students who have completed student teaching. A discussion of current trends and innovative techniques in the teaching of music. Prerequisite: Practice teaching or permission of chairman.

4510. Honors Project in Music/(2-3). F;S.

Appropriate research for the senior honors student in music.

4610. Marching Band Techniques/(2).S.

A study of the fundamentals of marching, precision drill, formations and maneuvering; the planning of football shows and parades.

4611. American Music/(2).SS.

The development of American music from the Puritan psalm singers to contemporary jazz with particular attention given to those musical concepts and practices which are distinctly American.

4612. Piano Literature/(2). On demand.

The study of the literature for piano from the pre-Bach to the present day through performance, analysis and recordings.

4613. Instrument Repair and Adjustment/(2).S;SS.

The repair and care of string, wind and percussion instruments.

4614. Advanced Instrument Repair and Adjustment/(2).SS.

This course will be offered on a contract basis. Each student will contract to do one or more specific projects. Grading will be based upon the contract. The teacher will function more

as a tutor than in a lecture demonstration as in Music 4613. Prerequisite: MUS 4613.

4615. Concert Band Literature/(2). On demand; SS.

A study of the development of the wind band and its literature. Significant original compositions and transcriptions with emphasis on Twentieth Century works.

4616. Opera Literature/(2). On demand; SS.

Operatic development and literature from the Baroque period to the present day. Representative works will be studied visually and aurally.

4617. Chamber Music Literature/(2). On demand; SS.

Instrumental ensemble music from the early Eighteenth Century to the present, with special emphasis on the string quartet as a musical form.

4618. Symphonic Literature/(2). On demand; SS.

A comprehensive study of the development of the symphony from the Mannheim School to the present through an analysis of selected works.

4630. Problems in Elementary School Music/(2).S;SS.

Music teaching in the primary and grammar grades; research and demonstrations of methods of teaching elementary school children.

Graduate Courses

5000. Bibliography and Research/(3). F;SS.

A study of bibliographical problems, types of research, and organization and reporting of research. Required in the first semester of all beginning graduate music students.

5001. Analytical Technique/(3).F;SS.

The development of techniques for analysis of music from the Baroque to Mozart through counterpoint, melodic structure, harmony and form. Lecture and demonstration three hours.

5002. Pedagogy of Music Theory/(2). S;SS.

A comprehensive review of basic theory with special emphasis placed upon the various methods of approach and the means of determining a personal philosophy. Lecture and demonstration three hours.

5004. Seminar in Music Literature I/(3).F;SS.

A survey course covering the most important aspects of man and his relation to the arts. Primary emphasis will be on the music literature of the period from 1600-c. 1800.

5005. Seminar in Music Literature II/(3).S;SS.

Continuation of Music 5004 with emphasis placed upon the music literature from Beethoven to the present day.

5020. Graduate Ensemble/(0).F;S;SS.

Participation in one of the instrumental or choral ensembles.

5030. Advanced Conducting/(2).S;SS.

Emphasis upon the critical examination of both choral and instrumental scores, with development of conducting skills necessary in securing the desired effects.

5031. Philosophy of Music Education/(3).F;SS.

A review of the philosophy and practice in music education; reading of current studies, articles, books.

5032. Organization and Supervision of School Music/(2).S;SS.

The responsibilities of the music supervisor in relation to the classroom teacher, the music teacher and the school administration. (Same as SE 5032.)

5500. Independent Study in Music/(1-4).F;S;SS.

5505. Master of Arts Thesis/(2-4). F;S;SS.

5530. Selected Topics/(1-3). On demand.

A course with variable content which may be repeated for credit. Topics will include special areas of music theory, music literature and music education.

Performing Groups

1100. Marching Band/(0-1).F.

The marching band functions in cooperation with the athletic program during the fall semester. It appears in pep rallies, all home games, parades and at several away games. Membership is open to all students who play band instruments. The band usually meets for several days prior to the opening of fall semester. All students interested in performing should write to the band director. Majorette tryouts are held in the spring prior to the fall term.

1101. Symphonic Band/(0-1).S.

The Symphonic Band is open to all students who have had experience playing band instruments. The group plays standard literature and presents two concerts each year on campus. Rehearsal three hours.

1102. Wind Ensemble/(0-1).F;S.

Membership in the Wind Ensemble is limited to wind and percussion players who have attained the highest level of performing ability. This normally includes music majors primarily, although nonmajors can qualify. The group performs twice each year on campus and occasionally tours to schools in North Carolina and surrounding states. Rehearsal three hours.

1103. Brass Choir/(0-1).F;S.

The Brass Choir is limited in members to 25 and is augmented with a percussion section for various numbers. Rehearsal three hours.

1104. Stage Band/(0-1).F;S.

This group is open to all students by audition. Emphasis is placed on developing a variety of popular music styles. Concerts are given on the campus and occasionally at schools off campus. Rehearsal two hours on Monday nights.

1105. Symphonic Orchestra/(0-1).F;S.

The orchestra is open to all students who have ability and experience in playing any orchestral instrument. Emphasis is placed on securing good ensemble as well as the technical, dynamic and interpretive demands of the compositions performed. The orchestra appears in concert several times during the year. Rehearsals three hours with additional sectional rehearsals.

1106. Chamber Orchestra/(0-1).F;S.

The Chamber Orchestra is open to qualified students who have the ability and experience to perform music literature of the most select and demanding type. Due to the small size of the ensemble, each musician must be prepared to play solo passages. The group appears in concert each semester. Rehearsal three hours.

1107. Small Ensembles/(0-1).F;S.

Small Ensembles are open to all qualified students upon audition. Typical ensembles are the clarinet choir, string quartet and baroque ensemble. Rehearsal two hours.

1108. University Singers/(0-1).F;S.

The Singers accept students who read music and sing well. Auditions are open to all students. Emphasis is placed on fine choral literature of all periods, with particular emphasis given to the works of outstanding composers.

1109. University Choral Society/(0-1).F;S.

A large group of 200-300 which is open to all students and members of the community. A major oratorio is presented each semester. Rehearsal two hours on Monday evening.

1110. Women's Glee Club/(0-1).F;S.

The Women's Glee Club is open by audition to all women students who desire to sing. Rehearsals three hours.

1111. Men's Glee Club/(0-1).F;S.

The Men's Glee Club is open to all men students who desire to sing and may be elected for credit or as extracurricular activity. Rehearsal three hours.

1112. Chamber Singers/(0-1).F;S.

A select group of twelve voices who sing madrigal literature of the 16th Century and the chamber literature of all styles. Selection is based on audition. Rehearsal two hours.

1113. Opera Workshop/(0-1).F;S.
A select group of singers who design, plan and execute an opera each semester.

1114. Piano Ensemble/(0-1).F;S.
Supervised study and performance of duo and four-hand piano literature. Rehearsal two hours.

1115. Accompanying/(0-1).F;S.
Supervised study of accompanying vocal and instrumental solos. Rehearsal three hours.

Department of Speech

Charles E. Porterfield, Chairman

The objectives of the Department of Speech are to prepare those who are planning careers as teachers in the areas of speech communication or theatre; to prepare those interested in a career in broadcasting; to provide a broad background of information and develop speech skills needed by those students planning to enter other professions; to provide for the university and community the cultural influence and entertainment of good theatre, debates and discussions of current issues, and the informative and entertaining programs of radio.

The Department of Speech offers a diversified program of courses in the areas of drama, public address, radio and television broadcasting, and oral interpretation. The department supports a co-curricular program including competitive intercollegiate forensics, the University Theatre, and the ASU radio station, WASU-FM. Also, the department actively supports student organizations which are related to speech, such as the American Theatre Student League, Alpha Psi Omega Dramatics Society, Forensics Union, and Pi Kappa Delta Forensics Society. Speech majors are expected to participate in dramatics, forensics, and broadcasting activities.

A minor in speech consists of 14 semester hours above the 1000 level and must include 2101, 2406, 2155, 3108, and four semester hours in speech electives.

For the Bachelor of Arts degree with concentration in general speech, a major consists of 32 semester hours above the 1000 level. This must include: 2101 2102, 2105, 2155, 2406, 3101, 3108, 3181, 4180, 4181, 4406; and three hours from Psychology 3302, 4551, or 4651; and three hours from Sociology 4440.

For the Bachelor of Arts degree with concentration in theatre, a major consists of 33 semester hours above the 1000 level. This must include: 2011, 2102, 2203, 2208, 2209, 2210, 2211, 2406, 3202, 3203, 3208, 3211, 4202; PE 1028; and four semester hours from English 4830 and 4840.

For the Bachelor of Science degree in speech and certification in speech communication a major consists of a minimum of 41 semester hours above the 1000 level. This must include: 2101, 2102, 2105, 2155, 2203, 2208, 2315, 2406, 3101, 3108, 3181, 3202, 3316, 4175, 4180, 4181, 4256; and HR 2260.

For the Bachelor of Science degree in speech and certification in theatre arts a major consists of a minimum of 42 semester hours above the 1000 level. This must include: 2101, 2102, 2203, 2208, 2209, 2210, 2211, 2316, 2406, 3202, 3203, 3211, 3316, 4202, 4256, any two hours in speech communication; four semester hours from ENG 4830 and 4840; HR 2260; and PE 1028.

Courses of Instruction in Speech

(For a description of the notation used in the following list of courses, see page 42.)

1100. Introduction to Speech Communication/(2).F;S;SS.

Introduction to the theory and practice of speech communication. Upon satisfactory completion of the course the student will be declared speech proficient.

1200. Stage Arts I/(1).F.

Introduction to play analysis, stage lore, and theories of performance. Successful completion required for admission to theatre program.

2011. Introduction to Theatre/(3). F;S;SS.

A nontechnical course for students with little or no theatrical background. A survey of all phases of theatre.

2101. Public Speaking/(2).F;S;SS.

Intensive practice in composition and delivery of various types of speeches with emphasis on speech structure and style.

2102. Voice and Diction/(2).F;S.

Instruction and practice in voice production and articulation; analysis of regional speech differences and standards.

2105. Argumentation and Debate/(2).F.

A study of the principles of argumentation and debate; analysis briefing, evidence, reasoning, and refutation; class debating on vital questions.

2155. Introduction to Persuasive Speaking/(2).S.

Survey of the theories of persuasive speaking and audience analysis. Practice in the preparation and delivery of speeches to persuade.

2200. Stage Arts II/(1).S.

Continuation of 1200 with emphasis on basic theories of design, directing, and aesthetics. Prerequisite: SCH 1200.

2203. Introduction to Acting Techniques/(2).F.

Study of breath, voice and body control. Emphasis on development of self-control, concentration, and use of theatre environment. Prerequisite: Permission of instructor.

2208. Stagecraft/(2).F.

Introduction to the techniques used in constructing a stage setting. Includes units on use of tools, hardware, types of scenery, painting, and the handling of lighting equipment.

2209. Scene Design/(2).S.

Elementary application of design principles to scenic design. Units on history, styles, use of color, line, and shape. (Study culminates in a full scale design problem to include written analysis and front elevation renderings.) Prerequisite: SCH 2208.

2210. Stage Lighting/(2).F.

Introduction to the use of stage lighting instruments and control. Includes units on basic electricity, physics of light, types of instruments, and intensity control. Prerequisite: SCH 2208.

2211. Classical Theatre History/(2).F.

Study of theatre architecture, presentation techniques, and literary values from the Greek period to the end of the 19th Century.

2315. History and Development of Broadcasting/(2).F;S.

Study of the history and development of radio-television with emphasis on technical, economic, legal, and social aspects.

2316. Radio Production/(3).F.

Radio broadcast procedures; program types and standards; laboratory practice in radio: production of programs for WASU-FM.

2406. Interpretative Reading/(3). F;S;SS.

Oral interpretation of literature.

2500. Independent Study/(1-2).F;S;SS.

3101. Classical Rhetoric/(2).F.

Study of the foundations and development of rhetorical theory and practice during the period of classical antiquity in Greece and Rome.

3108. Discussion and Conference Techniques/(3).F.

Theory and principle of group processes as they are used in democratic decision making. Practice in organizing, leading, and participating in various forms of discussion and conference. Includes unit on parliamentary procedure.

3151. Business and Professional Speaking/(2).S.

Basic principles of oral communication applied to speech needs encountered in the business and professional world. Special emphasis on interviewing and conference speaking.

3181. History and Criticism of American Public Address/(3).S.

A critical study of American speakers from the Revolutionary Period to 1920. Emphasis is given to the rhetorical craftsmanship exhibit in the speeches and the affects of the speeches upon American history.

3202. Theatre Directing Techniques I/(2).F.

Directing techniques for proscenium theatre including coaching the actor and analysis of scripts. Includes preparation of director notebook and directing of one or more scenes. Prerequisite: SCH 2203.

3203. Acting Techniques II/(2).S.

Study of character development in relation to the play. Explores techniques needed in a variety of theatre styles. Prerequisite: SCH 2203.

3208. Advanced Stagecraft/(2).S.

Study of modern stagecraft techniques in use in the theatre. Includes study of latest methods and materials, shapes and colors in both stage settings, costume, and makeup. Prerequisite: SCH 2208.

3211. Contemporary Theatre History/(2).S.

A study of theatre in the 20th Century. (Not offered 1975-76.)

3301. Writing for Radio and TV/(4).F.

News gathering, research, writing and presentation on radio and television. Introduction to the fundamentals of broadcast scriptwriting for documentaries, commercial, adaptations, and creative dramatics.

3316. TV Production/(3).S.

Television broadcast procedures; program types and standards: laboratory practice in TV production.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chairman of the department prior to registration.

4175. Directing Co-Curricular High School Program/(2).F.

Designed to prepare students to conduct the co-curricular programs of dramatics and forensics in high schools and junior high schools.

4180. Communication Theory/(3).F.

Study of communication theories, systems, models, formulations and measurements; new dimensions in speech criticism and research methodology; critical study of published reports in the contemporary literature of the field. (Not offered 1975-76.)

4181. Contemporary Public Address/(2).F.

Critical analysis of outstanding speakers of the 20th Century with special reference to the influence of their rhetoric on the issues of the period. (Not offered 1975-76.)

4202. Theatre Directing Techniques II/(2).S.

A practical application of the principles of directing through actual production of workshop scenes or a full one-act play. Special consideration to management and promotion.

4256. Creative Dramatics/(2).S.

A course designed to aid the potential teacher in using drama as a creative teaching technique. Practice in selecting and acting out stories and poems.

4300. Broadcasting in the Public Interest/(2).F.

A study of government regulating agencies and public interest concepts affecting the broadcast industry and public at large.

4315. Broadcast Programming and Management/(2).S.

A seminar approach to contemporary programming techniques for broadcasting including programming analysis, development, and implementation in real and hypothetical situations. Emphasis on management functions of audience analysis, selection of formats, financial considerations, engineering problems, and personnel planning.

4406. Advanced Oral Interpretation/(2).S.

A study of programming, reviewing, and adapting prose, poetry, and drama with emphasis on the techniques of group performance.

The Division of Human Resources

Benjamin L. Brooks, Director

The Division of Human Resources has as its primary function the more efficient delivery of preservice and inservice training to individuals pursuing a career in the area of habilitation. To accomplish this objective, the division has become an interdisciplinary unit encompassing the programs of special education, speech pathology, and vocational rehabilitation. Other areas, as the need arises, will either be added or formed in a joint cooperative manner with existing programs.

A secondary function is to provide direct community services through divisional resources and through cooperative ventures with areas such as the Division of Community and Regional Services. The specific objectives of the division are:

1. To train professional and supportive personnel to deliver habilitative and technological services to the handicapped.
2. To establish an interdisciplinary developmental evaluation center as an integral component of the division; to be planned, implemented, and maintained by divisional members, faculty members from related areas, and personnel from local and regional service areas.
3. To provide an administrative unit encompassing related areas.
4. To provide appropriate and necessary direct and indirect services to the communities within the university regions.

Degrees Offered

Degrees granted upon completion of programs offered by the Division of Human Resources will be awarded in cooperation with and by the existing colleges in the university. The division offers concentrations in the areas indicated below. The programs, degrees and colleges awarding these degrees are as follows:

Emotional Disturbance	B.S., M.A.	College of Education
Mental Retardation	B.S., M.A.	College of Education
Speech Pathology	B.S., M.A.	College of Fine and Applied Arts
Vocational Rehabilitation	B.A., M.A.	College of Arts and Sciences
Secondary Special Education	B.S.	College of Education
Habilitative Science	B.S.	College of Education
Learning Disabilities	M.A.	College of Education

Educational Leadership (concentration in Supervision of Special Education)	Ed.S.	College of Education

To be admitted to the Division of Human Resources as a candidate for a baccalaureate degree, a student must:

1. Meet the minimal criteria for entrance into a degree-granting college (i.e., have completed the 40-44 semester hours of general college credit and have a grade-point ratio of 2.00).
2. Be accepted into one of the areas of concentration offered within the division.
3. Have a program of studies which has been approved by the degree-granting college.

Undergraduate Programs of Study

The objectives of the undergraduate programs in the Division of Human Resources are to train personnel who can:

1. diagnose, prescribe for, and remediate the deficiences of the exceptional child;
2. interpret, program for, and change the behaviors and the environments of the exceptional child and;
3. understand and effectively cope with the affective dimensions of the child's behavior.

Core courses required of all majors in the Division of Human Resources include Human Resources 2200, 3370, 3376, 4571, 4572, 4574. Additionally, for students seeking certification on a K-12 basis, the following are required: Psychology 3301 and 3302; Secondary Education 3040, 3050, and 4070.

In addition to core requirements, teacher preparation in special education in the area of mental retardation must include: Human Resources 2260, 3371, 3372, 3373, 3374, 3375, 3390, 4560, 4561, 4570, 4575, 4576, and 4585. The student is also required to take the Common Examination and the Area Examination in Mental Retardation of the National Teacher Examination.

In addition to core requirements, teacher preparation in special education in the area of emotional disturbance must include Human Resources 2260, 3371, 4575, 4585, 4561, 4580, 3390, 3375, 3374, 4576, 4581, and 4560; and Psychology 3364 or 4552. The remaining 15 hours of the undergraduate program in the major of emotional disturbance may be taken in electives in areas such as counseling, human resources, sociology, psychology, education, etc. The student is required, however, to take at least three semester hours in the areas of psychology and sociology.

A concentration in habilitative science consists of an individualized program of study that meets the student's particular career objectives in the area of human resources. Any student in consultation with an advisor and with the permission of the Director's Office, may elect to adopt the concentration with a minimum of 36 semester hours plus the divisional core.

In addition to core requirements, a major in speech pathology leading to a Bachelor of Science degree and teacher certification must include Human Resources 2260, 2261, 2262, 2264, 3360, 3361, 3362, 3363, 4560, 4561, and 4564. Speech pathology majors are also required to take no less than nine semester hours of electives from human resources courses.

Any student, in consultation with an advisor and with the permission of the Director's Office, may elect to adopt a major in secondary special education with a minimum of 16 semester hours, consisting of courses selected to fit his particular career objectives. In addition to the concentration, the student must complete the divisional core plus the necessary professional education requirements.

In cooperation with the Department of Psychology, a concentration in vocational rehabilitation consisting of 40-44 semester hours (including the divisional core) will be planned for the student to meet his individual needs. The student must enroll for the divisional core as well as Human Resources 3390 and 3392 in addition to the course of study outlined by his advisor.

A student may earn an undergraduate minor which generally consists of 16 hours of credit from courses offered by the Division of Human Resources. Each minor is individually designed by the student and the coordinator of a specific area of interest within the division. A minor will be contracted for prior to the senior year or the last two semesters of residence at Appalachian State University.

Graduate Programs of Study

The Division of Human Resources participates with the College of Education in the field-based master's degree program. Consult the Division of Human Resources for further details.

A program of studies in learning disabilities leading to a Master of Arts degree in special education consists of 36 semester hours above the 4500 level and must include Human Resources 4560, 4561, 4571, 4581, 5000, 5545, 5572, 5574, 5576, 5578, 5579. Prerequisite to entering this program is a B.A. degree in elementary education, secondary education, special education or speech pathology and exposure to the course content of Human Resources 2200, 3370, and 4574 or equivalent.

A program of study in emotional disturbance leading to a Master of Arts degree in special education consists of a minimum of 36 hours above the 4500 level and must include Human Resources 4571, 4575, 4576, 4580, 5000,

5572, 5576, 5580, 5583, 5584, 5585. Prerequisites for the program include a bachelor's degree and exposure to the course content of Human Resources 2200, 3370, 4574, 4581; Psychology 4550 or Psychology 4552; Sociology 3300 or Sociology 3200 or equivalents.

A program of study in mental retardation leading to a Master of Arts degree in special education consists of a minimum requirement of 36 semester hours above 4500 level and must include Human Resources 4575, 5000, 5572, 5576, 5580, 5581, 5584 and 5585. Prerequisites for entrance into the program include a Bachelor of Arts degree and exposure to the course content of Human Resources 2200, 3370, 3371, 3372, 3373, 4574 or equivalent.

A program of study leading to a Master of Arts degree in speech pathology consists of a minimum of 30 semester hours with a thesis or 36 semester hours without a thesis and must include Human Resources 5000, 5660, 5661, 5662, 5663, 5664, 5665, 5666, 5545 and 5572. Prerequisites for entrance into the program include a bachelor's degree and Human Resources 2260, 2261, 2264, 3360, 3361, 3362, 3363, 4564, 4560, 4561 or equivalent. To receive this degree the student must meet the academic requirements for certification by the American Speech and Hearing Association.

In cooperation with the Department of Psychology, a program of studies leading to a Master of Arts degree in vocational rehabilitation is offered. Since the program is individualized to meet the student's particular career objectives, specific course requirements and prerequisite experiences can only be determined on an individual basis. Consult the Office of the Division of Human Resources for further details.

In cooperation with the Department of Administration, Supervision and Higher Education, the Specialist in Education degree is offered in education leadership with a concentration in the supervision of special education. The student should contact the chairman of Administration, Supervision and Higher Education or the director of Human Resources for further details.

Courses of Instruction in Human Resources

(For a description of the notation used in the following list of courses, see page 42.)

2200. Orientation to Human Exceptionality/(3).F;S;SS.

An overview of the various types of exceptional children and adults including gifted, speech handicapped, physically handicapped, sensory handicapped, emotionally disturbed, mentally retarded and the learning disabled. Emphasis will be placed on characteristics, identification, educational programming, and management. The student will also spend time in the public schools as a teacher's assistant.

2260. Communication Development/(2). F;SS.

A study of normal speech, language and hearing development. Concentration on developmental norms in the infant and preschooler. Includes specific evaluation and measurement techniques. (meets ASHA A)

2261. Phonetics/(3).F;S;SS.

A concentration in the study of the orthographic systems concentrating on basic and advanced phonetics emphasizing narrow transcription based on expansion of the I.P.A. Specific emphasis will be placed on clinical and classroom applications. (meets ASHA A) Prerequisite: HR 2260.

2262. Standards/(1).F;S.

Standards and ethical responsibilities of professionals in human resources with emphasis on nonacademic requirements and practice. (meets ASHA A) Prerequisite: HR 2260.

2264. Anatomy and Physiology/(2).F.

A concentrated study of the specific anatomical and physiological processes involved in verbal and auditory communication. Concentration on the biological and neurological foundations of speech and hearing. (meets ASHA B-1) Prerequisite: HR 2260.

2500. Independent Study/(1-3).F;S;SS.

3360. Bio-Acoustics/(2).F.

A concentrated study of the peripheral and central nervous systems involved in normal and pathological communication including speech and auditory signal acoustics, and instruments employed in evaluating, storing, and retrieving these signals. Also included will be specific measurement techniques employed in clinical research habilitation relative to the management of speech, language and hearing pathologies. (meets ASHA A) Prerequisite: HR 2264 or permission of instructor.

3361. Diagnostics/(1-4).F;S;SS.

Specific lectures, demonstrations, and practicum experience in the evaluation and diagnosis of speech pathologies. A minimum of 15 clock hours required in practice. (meets ASHA B-1).

3362. Articulation and Cleft Palate/(3).S.

A concentrated study on the biological and physiological theories related to the etiology, evaluation, and habilitation of cleft palate and articulation disorders. Concentration on developing specific behavioral competencies in the employment of diagnostic and therapy techniques. (meets ASHA B-1) Prerequisite: HR 2261.

3363. Audiology and Aural Habilitation/(2).S.

Concentrated studies on the biological, neurophysiological and psychological; etiological theories, evaluation methods and habilitation procedures employed with listening problems, hearing impaired, and deaf. Emphasis on auditory training and lip reading instruction with the preschool and school age hearing impaired. (meets ASHA B-2) Prerequisite: HR 2260.

3370. Introduction to Mental Retardation/(3).F;S;SS.

A concentrated study of the individual who has problems of retardation with regard to his characteristics, behavior, and his general nature and needs in the home, community, and learning environment.

3371. Educable Mentally Retarded/(3).F;S;SS.

Characteristics and problems of children in the upper levels of retardation. Survey of studies in regard to causative factors, community and educational problems and diagnosis.

3372. Trainable Mentally Retarded/(3).F;S;SS.

Classification, diagnosis, characteristics, education and care of children in the trainable range of intelligence. Includes a study of institutional care.

3373. Curriculum for the Mentally Retarded/(3).F;S;SS.

Curriculum development at different levels of maturation, organization, planning; adaptation of activities, materials and methods.

3374. Diagnostic Prescriptive Teaching/(5).F;S.

A concentrated course dealing with specific teaching techniques or academic subjects for the exceptional child. Academic areas to be covered include arithmetic, reading, art, music, physical activities, and recreation, social studies, general health and grooming and therapeutic arts and crafts.

3375. Curriculum Methods and Materials for Exceptional Children/(3).F;S;SS.

An intensive study and demonstration course dealing with the interpretation, design, development, and implementation of curriculum, methods, and materials which are used in Special Education.

3378. Educational Aspects of Severe and Profound Impairments/(3).F;S.

A comprehensive study of the existing literature regarding the etiology, behavioral aspects and the treatment and training of the profoundly impaired. Prerequisites: HR 2200, HR 3370, HR 4571, and HR 4574.

3390. An Introduction to and Procedures in the Helping Professions/(2).F.

Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed. (Same as PSY 3390.)

3392. Medical Aspects of Disability/(3).S.

Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutional setting. (Same as PSY 3392.)

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530. Selected Topics/(1-3). On demand.

4560. Speech Disorders of Exceptional Children/(2).F.

Speech problems associated with learning disabilities, mental retardation, emotional disturbance, and neuromuscular disorders. (meets ASHA B-1)

4561. Language Disorders of Exceptional Children/(2).F;S;SS.

Concentrated studies on the habilitation of language disorders of the preschool and school age child. Emphasis on language habilitation of the mentally retarded and brain damaged child. Specific competencies developed in the behavioral evaluation and habilitation of the language impaired child. (meets ASHA B-1)

4564. Clinical Practicum/(1-3).F;S;SS.

Supervised therapy with emphasis on individualized therapy techniques. A minimum of 30 hours in therapy is required for each academic hour of credit. May be repeated for a total of two semester hours. (meets ASHA B-1) Prerequisite: HR 3362.

4570. Experimental Approaches in Mental Retardation/(3).F;S.

Students will study reviews of efficacy studies, pending and completed litigation, infant studies of interdisciplinary developmental models.

4571. Introduction to Emotional Disturbance/(3).F;S;SS.

An introductory course in the education of the emotionally handicapped child. Emphasis will be placed upon the psychological, sociological, and educational implications in the education of emotionally handicapped children.

4572. Psychological and Sociological Problems of Exceptional Children/(3).F;S;SS.

Deals with cultural, social and intellectual adjustives and educational factors which are relevant to the understanding of etiological and therapeutic problems and issues in Special Education.

4574. Contingency Management I/(2). F;S;SS.

An intensive study of the background, procedures, and application of contingency management in a learning situation for the exceptional child. It moves from theory and the laboratory into the classroom, home and community.

4575. Contingency Management II/(2). F;S.

This course is designed to teach students to utilize the principals and procedures of behavior modification and applied behavior analysis research. This will include principals and procedures that deal with measurement of behavior and environmental events; the use of consequent events to modify behaviors; the use of antecedent events to modify behaviors; and the critical evaluation of the usefulness of principals and procedures in the literature.

4576. Introduction to Learning Disabilities/(3).F;S;SS.

The identification and education of youth with learning disabilities, including programs, teaching strategies, and theories.

4580. Teaching the Emotionally Disturbed/(3).F;S;SS.

A survey of operational models and techniques to be implemented with the emotionally handicapped child; to include curriculum, methods and administrative educational adjustments.

4581. Counseling Parents of Exceptional Children/(3).F;S;SS.

Techniques and consideration to be used when counseling parents of exceptional children.

4585. Interpretation of Assessment Data/(3).F;S.

To promote a competency in the administrations scoring and diagnostic interpretation of various individual tests that are commonly used in clinical and school settings.

Graduate Courses

5000. Research and Bibliography/(2). F;S;SS.

A study of the procedures, designs, and methods of reporting in human resources. Required in the first semester of graduate study.

5500. Independent Study/(1-3).F;S;SS.

5505. Master of Arts Thesis/(1-4). F;S;SS.

Study of the various types of research and the logical organization and reporting.

5530. Selected Topics/(1-3). On demand.

This course is designed to be offered in any area of concentration within the Division. The purpose and objectives will vary with the content of the course.

5570. Readings and Research in Mental Retardation/(3).S;SS.

Individual programs of reading or research for students majoring in the education of exceptional children.

5572. Internship/(1-9).F;S;SS.

Supervised experience with handicapped children.

5573. Education to the Gifted/(3).SS.

A survey of educational programs for the gifted including curriculum, methods, and administrative educational adjustments.

5574. Instructional Strategies in Learning Disabilities/(3).F;S;SS.

Course designed to train teachers to be effective in structuring the learning situation and to develop a sequence of remedial activities and materials. Application of appropriate remedial techniques to individual deficiencies or disorders.

5576. Advanced Diagnostic-Prescriptive Teaching/(4).S;SS.

Rationale, operational models, techniques used on the implementation of the diagnostic-prescriptive approach. Supervised field experiences in the actual diagnostic-prescriptive approach.

5578. Neurological Disorders/(3).F;SS.

A study of children who have learning disabilities due to neurological or unknown causes and techniques required for their education.

5579. Identification and Evaluation of Learning Disabilities/(3).F;S;SS.

A course designed to acquaint the student with tests and assessment techniques of learning disabled chil-

dren. Emphasis will be placed on developing the skills to use test and assessment techniques.

5580. Advanced Curriculum Design/(3).F;SS.
A graduate level course to become knowledgeable about the physiological and psychological basis of learning. Curriculum development for various exceptionalities and the rationale and development to meet their needs.

5581. Seminar in Mental Retardation/(3).S;SS.
An advanced course dealing with the psychological, sociological, educational and medical aspects of mental retardation.

5583. Education and Behavioral Aspects of Emotional Disturbance/(3).F;S;SS.
An intensive investigation of the theoretical explanations of behavior and the ways these explanations find expression in interventions with children. Students will be required to justify their own interventions by relating them to alternate explanations of child behavior.

5584. Organization and Administration of Special Education/(3).S;SS.
The implementation of special education programs at the national, state, and local levels. Effective public school programming.

5585. Assessment and Development of Adaptive Abilities/(3).F;SS.
An indepth review of the literature in infant and early childhood development concerning the assessment, evaluation, and programming for the development of adaptive abilities leading to cognitive development.

5591. Rehabilitation Services/(2).S.
Vocational planning and work preparation for the handicapped. Includes consideration of basic occupational skills, work, training, and childhood workshop programs. (Same as PSY 5591.)

5592. Advanced Medical Aspects of Disability/(3).S;SS.
What constitutes severe disability, its effect on the individual and multidisciplinary approaches to amelioration. Disabilities will include epilepsy, spinal cord and brain injuries, degenerative diseases, and their sequelae. Prerequisite: HR 3392. (Same as PSY 5592.)

5660. Aphasia and Cerebral Palsy/(3).S.
Advanced studies on aphasia and cerebral palsy with emphasis on evaluation and remediation procedures. (meets ASHA B-1)

5661. Advanced Diagnostics/(1-4).F;S;SS.
Evaluation and diagnostic lectures, demonstration, and practicum in articulation, voice, cleft palate, laryngectomy, language and hearing disorders. (meets ASHA B-1)

5662. Aural Rehabilitation/(2).F.
Studies on the habilitation of the preschool and school age hearing impaired. Emphasis on prescriptive and resource curricular management. Includes advanced auditory training and speech reading methods. Survey of hearing-aid orientation and monitoring techniques.

5663. Stuttering/(2).S.
Concentrated studies on the biological, physiological, and psychological theories and the etiologies, evaluations and habilitation of stuttering and allied fluency disorders. Concentration on the behavioral techniques employed in evaluation and habilitation of stuttering. (meets ASHA B-1)

5664. Profound Language Disorders/(2).S;SS.
Theory, evaluation, and therapy for profound language disordered children. Emphasis on childhood aphasia and autism. (meets ASHA B-1)

5665. Advanced Audiology/(2).F.
Advanced audiological procedures and techniques. Concentration on advanced neurophysiological auditory measurement, research and applications to therapy. (meets ASHA B-2)

5666. Voice Disorders/(3).F.
A concentrated study on the biological and physiological theories related to the etiology, evaluation and habilitation of voice. Concentration on developing specific behavioral competencies in the employment of diagnostic and therapy techniques. (meets ASHA B-1)

The College of Continuing Education

James W. Jackson, Dean

Willard M. Deal, Jr., Assistant to the Dean

Richard B. Parrott, Assistant to the Dean

In cooperation with other colleges of the university, the College of Continuing Education strives:

To provide educational experiences for those outside the confines of the university through extension classes, conferences, and camp programs.

To expand the knowledge of university students through a program of internships with business and agencies in the region.

To offer educational experiences to graduate and undergraduate students, along with persons seeking enrichment or certificate renewal credit, during the university summer sessions.

To coordinate university and regional services in programs directed toward the improvement of life in the region.

Although the College of Continuing Education is not a degree-granting program in the university, the dean and the offices within the College of Continuing Education work closely with all other academic departments and divisions of the university in order to better serve the various groups and populations calling upon the university for its services. The offices directly responsible to the Dean of the College of Continuing Education are:

The Office of Summer Sessions

The Center for Continuing Education

The Office of Extension

The Office of University Camp Programs

The Student Internship Program

The Division of Community and Regional Services

The Appalachian Oral History Project

The Appalachian Consortium Project

The Computer Based School Support Services Division

The Office of Summer Sessions

Summer sessions at Appalachian have experienced steady growth, not only in size, but also in depth of programs offered. Besides offering courses

allowing undergraduates to work toward their degree requirements, the university schedules workshops, seminars, and standard courses for teachers and other professional persons to gain enrichment or to work toward advanced degrees.

For those desiring to attend classes without moving from their residence, a Weekend College is offered with classes meeting on Friday night or Saturday morning. Summer sessions at Appalachian offer an alternative to the typical summer school.

The Center for Continuing Education

Appalachian's $3 million Center for Continuing Education, which opened early in 1973, is located at an elevation of 3,535 feet at the top of the new west campus. The center contains approximately 70,000 square feet—with 21 multipurpose meeting rooms (including a small auditorium), a library, and exhibition areas. In addition, the facility provides complete living accommodations for guests, with 91 bedrooms, a spacious dining hall, a coffee shop, and a gift shop.

The center also contains the most up-to-date audiovisual and learning resources equipment as well as special lighting. Besides these facilities, there are lounges, cable-color-TV, wall-to-wall carpet throughout the building, and two lobbies. Well-lighted parking areas are available for cars and buses, and charter or limousine service is provided to four airports.

The Office of Extension

As a service to the people of Piedmont and Western North Carolina, Appalachian State University conducts off-campus classes. As far as possible, these classes are planned around extension centers so that adequate equipment, supplies, and materials for collateral reading may be provided. These classes are taught by members of the regular faculty or by persons appointed especially for this service.

For graduate students who register for extension work, up to eight semester hours of graduate credit may be counted toward the master's degree. Extension work applied toward the master's degree will not reduce the minimum residence requirements of 36 weeks.

Not more than 20 semester hours of extension and/or correspondence credit from recognized institutions may be applied toward meeting the requirements for the baccalaureate degrees.

For information on the extension program contact the Director of Extension, Appalachian State University, Boone, North Carolina, 28608.

The Office of University Camp Programs

The Office of University Camp Programs is involved in coordinating two areas of educational and recreational camping experiences, on-campus and off-campus programs.

The on-campus programs involve educational camps that include retreats, seminars and conferences. The on-campus recreational programs include summer camps in such sports as basketball, football, baseball and swimming.

The off-campus program is conducted at Camp Broadstone, a 53-acre facility located in a wooded setting six miles from the main ASU campus. Camp Broadstone is available for summer and winter camping programs, retreats and picnics. The camp has a main lodge that is capable of feeding a group of approximately 150. The university encourages the use of this off-campus facility by students, faculty, community and civic groups. For information, contact the Director of Camp Programs, Appalachian State University, Boone, North Carolina, 28608.

Student Internship Program

The Student Internship Program provides meaningful service-learning experiences outside the regular classroom situation. The program attempts to help relate academically obtained skills in many areas to existing regional problems. The program also provides a source of educated manpower to regional offices and agencies and provides students with the opportunity to serve these agencies and at the same time enhances educational perspectives. Internships have proven a stepping stone to jobs after graduation as they provide students with experience and job opportunities and contacts.

The Division of Community and Regional Services

The Division of Community and Regional Services of the College of Continuing Education works cooperatively with the various colleges, divisions, and departments on the Appalachian State University campus. The division serves as a liaison agent between the university and the region in matters pertaining to educational and consultative services. The division serves as both a major sponsor and participant in consortial arrangements with other institutions or agencies in service-oriented projects. The division is composed of four institutes: (1) Health and Habilitative Services; (2) Post-Secondary Educational Services; (3) Elementary and Secondary Educational Services; (4) Business and Industrial Services; and the Bureau of Governmental Services. Each of these components is designed to work cooperatively with a specialized group of agencies and/or businesses and various segments of the university.

The activities of the division often lead to field experiences for students, to research opportunities for faculty members, and to continuing education programs designed to meet special needs of the region. For further information contact the Director, Division of Community and Regional Services, Appalachian State University, Boone, North Carolina, 28608.

Appalachian Oral History Project

The Appalachian Oral History Project is a multi-institutional program designed to collect and catalog Appalachian culture and heritage from around 1900 to the present and foster a deeper understanding and appreciation of this culture. The project uses local persons to interview longtime area residents. An advisory board, composed of local citizens, assists the project in its undertakings. Future project activities include transcription of audio taped interviews into written form.

The Appalachian Consortium Project

The Appalachian Consortium Project is a multi-institutional organization devoted to the salvaging, perpetuation, and preservation of folk traditions, music, tales, history, and cultural efforts. Members of the consortium have accomplished various projects related to the Southern Appalachian culture. A major activity of the consortium was the launching of "Traditions in Transition," a program of study on the impact of urbanization on rural Appalachia. The consortium will expand upon the "Traditions in Transition" program and will further develop an Appalachian Studies Curriculum. The Appalachian Consortium Press is encouraging the publication of area material by original and national publishers. Emphasis is being placed on the establishment and enhancement of "living museums" as well as on archives.

Computer Based School Support Services Division

Appalachian State University operates the School Support Services Division in cooperation with the computer center to provide computer services for regional educational institutions. The division is presently providing computerized student scheduling and grade and attendance reporting for ten public high schools. Research is being conducted in the areas of modular scheduling and computerized master schedule construction. The Contract Registration System provided by the division serves postsecondary institutions in the areas of student registration, records, accounting, enrollment reporting and grade reporting. Currently, nine institutions are working with the division in this project. The division provides educational services and systems analysis for the development of computer-based management information systems and institutional research. A feasibility study is under consideration for the implementation of on-line computer capabilities via terminals to enhance the present system and thereby more effectively and efficiently serve the participating institutions.

Nontraditional Programs

Appalachian State University is continuing to expand nontraditional program offerings in an effort to meet the diversified educational needs of people in the Appalachian region. A correspondence course program has recently been initiated.

Appalachian State University is also participating with other member institutions of The University of North Carolina in the Course by Newspaper program.

The Graduate School

Cratis Williams, Dean

Benjamin F. Strickland, Assistant Dean

The Graduate School, organized to provide facilities for advanced study leading to master's degrees and specialist's degrees, offers programs of graduate work during the summer session and the two semesters of the regular session. Late afternoon, evening, and Saturday morning courses are scheduled for commuters and part-time students. Extension courses are offered in the region which Appalachian serves. Up to eight hours of degree credit may be offered through extension and/or by transfer from another accredited graduate school.

The primary purpose of graduate study is to offer capable students opportunities and facilities for advanced study and research in their fields of specialization. The graduate programs are designed to develop or extend significantly specialization in academic, professional, or interdisciplinary areas. One of the functions of the Graduate School is to prepare master teachers, supervisors, and administrators. Accordingly, work leading to the Master of Arts degree is designed to prepare teachers for the following types of positions: superintendent, principal, general supervisor, supervisor of student teaching, school librarian, media center director, secondary school teacher, elementary school teacher, school counselor, school musician, reading specialist, audiovisual specialist, junior college teacher, junior college administrator, special education teacher, speech pathologist, student personnel director. A second function is to give an opportunity for academic training beyond the bachelor's degree to persons not interested in professional education. For these, programs leading to the Master of Arts degree in English, geography, history, mathematics, political science, psychology, or clinical psychology and the Master of Science degree in biology or chemistry have been approved.

Specialist in Education programs are offered in education leadership, elementary education, and higher education. A minor consisting of 12 to 16 semester hours of advanced graduate work in an academic area or in counseling, reading education, or educational media may be included in Ed.S. programs in elementary education and higher education. The Specialist in Science degree is available in biology.

Courses which have been approved for graduate credit by the curriculum committee of the college, the Academic Policies and Procedures Committee, and the Graduate Council constitute the graduate offerings. Majors are provided in audiovisual education, biology, chemistry, counseling, early childhood education (K-3), economics and business, educational media,

English, French, geography, higher education, history, industrial arts, elementary education (4-9), library science, mathematics, music, physical education, political science, psychology, clinical psychology, school administration, school supervision, science, special education, speech pathology, reading specialization, supervision of student teaching, social science, Spanish, and student personnel services. Minors are available in art, junior college education, philosophy and religion, physics, secondary education, sociology, and speech and drama. For further information on each of these majors see the appropriate departmental description in this catalog.

The Graduate School at Appalachian State University was organized in 1948. By the end of academic year 1973-74 a total of 6,182 master's degrees had been awarded. There were 2,380 persons enrolled in graduate school in the summer of 1974 and 2,135 in the fall terms of 1974-75. The graduate programs at Appalachian are nationally known. Among awarded graduate degrees in 1974 were 259 graduates of other institutions and 75 out-of-state students.

On February 26, 1949, graduate study at Appalachian was approved by the American Association of Colleges for Teacher Education. Programs leading to certificates based on a graduate degree are approved by the National Council for Accreditation of Teacher Education. The Graduate School has been a member of the Council of Graduate Schools in the United States since 1961.

The graduate faculty, consisting of 273 members in the fall of 1974 includes 233 who hold doctoral degrees from outstanding universities. The remainder are specialists in their fields or holders of terminal degrees in their disciplines. The library holdings, housed in the Belk Library, include approximately 300,000 volumes and are being supplemented currently at the rate of 30,000 volumes a year.

Summary of Procedures for Graduate Degree Students

Successive Steps	Time
1. Application for admission to Graduate School.	1. At least one month prior to student's first registration.
2. Miller Analogies Test.	2. Concurrent with admission to graduate school.
3. Scores for the NTE or GRE.	3. During the first semester of graduate work.
4. Consultation with departmental advisor.	4. During registration and about two weeks later.
5. File with the departmental advisor three copies of the application for candidacy and the program of study leading to the degree or certificate of advanced study.	5. Prior to the close of the first semester or the term in which the first eight semester hours of resident graduate work will be completed.

Successive Steps	Time
6. Clearance and application for degree. Obtain necessary forms and instructions from the Graduate Office.	6. Have program of study cleared in the Graduate Office prior to or during registration for the last semester of work. *File application for degree by end of the first week of final semester.*
7. Comprehensive examination.	7. During last semester and at least ten calendar days before graduation.
8. Completion and defense of thesis.	8. Completed at least one month prior to date set for defense of thesis. Thesis must be defended prior to seven days before graduation.
9. Filing of unbound copies of thesis and abstracts in the university library.	9. Immediately after approval of thesis committee and acceptance by the Dean of Graduate School.
10. Conferring of degree.	10. May or August commencement.

Admission: Master's Degree Programs

Requirements

1. A baccalaureate degree from a college or university of recognized standing.

2. An undergraduate background appropriate for graduate study in the proposed field. If the student intends to become a candidate for the Master of Arts degree with a major or minor in education, he must present a minimum of 18 semester hours of undergraduate credit in education and related courses. For prerequisites in his academic field he should consult the chairman of the graduate advisory committee in that field.

3. A report of scores from the Miller Analogies Test, which is administered by appointment at the testing centers on the campuses of most universities and many senior colleges.

4. Admission formula: first two digits of the undergraduate grade-point average (GPA) plus the raw score on the Miller Analogies Test (MAT) must equal a minimum of 60. For example, John Doe has an undergraduate GPA of 2.77 and a MAT score of 34. Now apply formula: $27 + 34 = 61$. John Doe would meet minimum admission requirements.

5. An application for admission made on a special form, obtainable on request, and submitted with two complete transcripts of all previous college work, unless done at Appalachian, at least one month before the candidate plans to begin graduate study.

6. Three reference ratings, one of which must be from a college administrator or the head of the department in the candidate's undergraduate major field of study.
7. Approval of the chairman of the department or the coordinator of the curriculum in which he intends to major.
8. A record of successful teaching experience or satisfactory completion of student teaching is required for one applying for admission to a program leading to a certificate to work in public schools. Such an applicant must hold, or be eligible to hold, a North Carolina A teaching certificate in his chosen field or the comparable certificate in another state.

Admission Status

Regular. Regular admission to the Graduate School is granted to students who meet the established requirements for entrance.

Provisional. A student who does not have all the course prerequisites for admission, or who has deficiencies, but is otherwise admissible may enter on a provisional basis.

High Risk. A student with a good-to-excellent undergraduate record and who is highly recommended by the references but whose scores on required tests are below the normal cutoffs for admission to candidacy may be admitted as a "high risk" graduate student. If the GPA is at least 3.20 for the first semester of graduate work, he may apply for candidacy.

Unclassified. A student who does not plan to work for the master's degree may be permitted to register for graduate courses for self-improvement or to be used for renewing his certificate or changing his certification pattern. Such work, however, may not later be applied toward the degree. Unless the student already holds the master's degree, he is normally encouraged to apply for admission in order to assure a dual use of his graduate credits.

Transient. A student enrolled in another recognized graduate school may be permitted to register for a limited number of graduate credits at Appalachian provided the dean of the graduate school in which he is enrolled submits a statement that he is in good standing.

Advisors

Each student admitted to a program of graduate study at Appalachian State University is assigned an academic advisor or advisory committee from the department or curriculum program in which the student plans to complete the major portion of his work. The student is expected to meet with his advisor during the first term on campus for the purpose of developing a graduate degree program. Changes in this program can be

made only with the approval of the advisor and the Dean of the Graduate School. Course work taken without the approval of the advisor will not automatically be applicable towards the degree. A list of advisors for each graduate major offered follows:

Audiovisual Education	John A. Pritchett
Biology	I. W. Carpenter
Chemistry	George B. Miles
Early Childhood Education (K-3)	Grace G. Lilly
Economics and Business	Orus Sutton
Educational Media	Doris Cox
Elementary Education (4-9)	Grace G. Lilly
English	John E. Trimpey
Foreign Languages	J. Roy Prince
Geography	William Imperatore
Guidance and Counseling	Harry G. Padgett
	David T. Robinson
	Fred Badders
	Terry Sack
History	Roy Carroll
Industrial Arts	Alfred Rapp
Junior College Education	Leland Cooper
	Joe Widenhouse
	Tom Cottingham
	Mayrelee Newman
	William Cooper
	Ralph Hall
Mathematics	Lynn M. Perry
Music	Max Smith
Physical Education	Edward T. Turner
Political Science	Roland F. Moy
Psychology, Clinical	Richard H. Levin
Psychology, General-Theoretical	Willard L. Brigner
	Frank R. Terrant
Reading Specialist	Uberto Price
School Administration	Alvin R. Hooks
	Spencer D. Durante
	N. W. Shelton
	Nathaniel H. Shope
	Guy T. Swain
Science Education	I. W. Carpenter
Secondary Education	N. A. Miller
Social Science (General)	P. A. Hughes
Social Science (Sociology Concentration)	A. M. Denton
	Louie Brown
Special Education	Benjamin L. Brooks
	Arthur Robarge
	Raymond J. Hyer

Speech Pathology	Millard Meador
Student Personnel Services (Junior College)	Fred Badders
Supervision	Alvin R. Hooks

Admission to Candidacy

Admission to graduate study does not carry with it admission to candidacy for the master's degree. Admission to candidacy for the degree is acted upon after one semester of graduate study in the university.

1. Admission to candidacy is contingent upon the recommendation of the applicant's advisor and the approval of the Graduate Council.

2. Before being accepted as a candidate for the degree, an applicant will be expected to have demonstrated ability to do satisfactory and creditable work at the graduate level. A student must have at least a *B* average at the time his application for candidacy is presented.

3. Before filing application for admission to candidacy, the applicant shall have taken the Common and the Area of the National Teacher Examinations. An applicant for admission to the junior college program may offer scores from the Graduate Record Examination Aptitude and the Advanced Test in his Area in lieu of the National Teacher Examinations. An applicant for admission to the Master of Arts programs in English, geography, history, mathematics, political science, or psychology or the Master of Science program in biology or chemistry must offer scores from the GRE Aptitude and the appropriate Advanced Test.

4. Each student shall file with his advisor a program of study and an application for admission to candidacy before the end of the semester which he will complete eight semester hours of resident graduate credit at Appalachian. Forms for this purpose may be obtained either from the advisor or from the Office of the Dean of the Graduate School. At the time the application is presented to the Graduate Council by the advisor, the student shall have completed the research course required in his major field and at least one other course in his major field. In all cases the student must complete at least eight semester hours of credit after he is admitted to candidacy.

5. The application for admission to candidacy shall be accompanied by a proposed program of study approved by the applicant's advisory committee and the Dean of the Graduate School. Normally, the program of study will include a major of not less than 24 semester hours in audio-visual education, biology, chemistry, counseling economics and business, education, educational media, English, French, geography, history, industrial arts, library science, mathematics, music, physical education, political science, psychology, reading education, science, social science, Spanish, special education, or speech pathology and a minor of not less

than six semester hours in education if the proposed major is in a field other than education.

6. Except for those preparing to teach in junior college or moving toward the Master of Arts in English, geography, history, mathematics, political science, or psychology, or the Master of Science in biology or chemistry, students are required to present a minimum of 18 semester hours of undergraduate credit in education and related courses. The applicant's academic field shall be based upon a prerequisite of an undergraduate major in that field. Persons preparing in elementary education for the N. C. Intermediate Certificate (4-9) and majoring in an academic area must present a minimum of 14 hours of undergraduate work in the academic field. Those preparing for the N. C. Graduate Early Childhood Education Certificate (K-3) may spread the academic graduate work over as many as four fields with at least 6 hours of academic work in a single field.

Requirements for Graduation

The degree of Master of Arts, Master of Science, Specialist in Education, or Specialist in Science may be conferred upon a student who has completed creditably the program of work submitted to the Graduate Council at the time the application for admission to candidacy was approved. Except in M.S. programs in biology and chemistry and nonteaching M.A. programs in English, geography, history, mathematics, political science, and psychology, the candidate may, with the approval of the advisor and the Graduate Council, elect not to write a thesis. Hence, either of two programs for a master's degree may be followed.

1. Twenty-six acceptable semester hours of graduate course work, exclusive of the thesis, 22 of which must be completed in residence at Appalachian.
2. A minimum residence of one academic year (36 weeks) or its equivalent in the summer.
3. A thesis in the major field of interest, for which the candidate shall register for credit not exceeding four semester hours.
4. All graduate credit offered for the degree must have been earned within a limit of six calendar years, or if earned within a limit of ten years, validated by examination. Graduate credit transferred from another institution may not be validated by examination. All work to be credited toward the degree, except that being taken currently, must be completed and grades recorded at least four weeks before the degree is awarded.
5. Not more than ten semester hours offered toward the degree may be credit earned in courses with catalog numbers below 5000.
6. Grades on course work may not average lower than *B*. No graduate course with a grade below *C* will be credited toward the degree.

7. An acceptable performance on a comprehensive examination, either oral or written or both, is required of every candidate for the degree. The comprehensive must be scheduled during the last one-half of the residence period and at least ten calendar days prior to the date on which the candidate receives the degree.

At least four weeks (two weeks in the summer session) before he is scheduled to defend his thesis before his examining committee, the candidate must submit a preliminary copy to each member of his committee. Within ten days (five days in the summer session), other members of the committee shall return the thesis to the chairman of the thesis committee with written criticism and statements of conditional or tentative approval. Prior to seven calendar days (five in the summer session) before he expects to receive his degree, the candidate will defend his thesis in an oral examination by his committee.

Immediately after the approval by the thesis examining committee, four typewritten copies of the thesis, the original and the first three carbon or xerographic copies, must be filed in the university library, together with the costs of having them bound.

Four copies of the approval sheet must be prepared by the student. One copy is bound with each copy of the thesis.

Four copies of an abstract of the thesis must be filed with the thesis after the abstract has been approved by the chairman of the thesis committee. The abstract, not to exceed two typewritten pages, shall give the problem, the procedure, and the conclusions reached in the thesis.

Thesis:

The subject of the thesis must be within the major field. The thesis should show:

1. Ability of the candidate to work independently on an approved problem.
2. A reasonably wide familiarity with the literature of the field of specialization.
3. A practical working knowledge of research methods.
4. Conclusions supported by data.

The student must have presented a prospectus to his advisor and received approval of his proposed topic before he is permitted to register for the thesis. The candidate's thesis advisor and two graduate faculty members of the department will constitute his thesis committee. The department chairman may appoint any member of the graduate faculty of his staff to act as chairman of the thesis committee and to supervise the writing of the thesis.

The latest edition of Campbell's *FORM BOOK FOR THESIS WRITING* is the approved guide for form of theses in educational fields. With the

approval of the Dean of the Graduate School and the thesis committee, the form may be varied to meet the requirements of the discipline in which the thesis is being written or of publishers if the manuscript is to be printed. One planning to write a thesis should request from the chairman of his department a copy of "Procedures for Writing a Thesis."

Without Thesis:

1. Thirty-six acceptable semester hours of graduate course work, 28 of which must be completed in residence at Appalachian. A candidate may, with the permission of his advisor and the approval of the Graduate Council, offer up to eight semester hours of graduate credit from another graduate school or eight semester hours of graduate extension credit from Appalachian or a combination of up to eight semester hours, but in no case may the residence at Appalachian be less than one academic year (36 weeks).
2. All graduate credit offered toward the degree must have been earned within a limit of six calendar years, or, if earned within a limit of ten years, validated by examination. Graduate credit transferred from another institution may not be validated by examination. All work to be credited toward the degree, except that being taken currently, must be completed and grades recorded at least four weeks before the degree is awarded.
3. For candidates majoring in education, not more than 12 semester hours offered toward the degree may be credit earned in courses with catalog numbers below 5000 except that majors in elementary education (4-9) who concentrate in mathematics may include up to 16 hours with numbers below 5000. For candidates completing an academic major of 24 hours, up to 16 hours of upper division undergraduate work may be approved, provided that not more than 12 semester hours of it is offered in the major.
4. Grades on course work may not average lower than *B*. No graduate course with a grade below *C* will be credited toward the master's degree.
5. An acceptable performance on a comprehensive examination, either oral or written or both, is required of every candidate for the degree. The comprehensive must be scheduled during the last one-third of the residence period and at least ten calendar days prior to the date on which the candidate receives the degree.

Masters of Arts Degree for Teachers and Other School Personnel

The following programs, which lead to the Master of Arts degree in education curricula, are designed for school personnel. Many of the programs do not provide an opportunity for writing a thesis.

In those programs which provide for a thesis, a student may elect not to write the thesis. If he does not write a thesis, he will with the assistance of his advisor select six semester hours in lieu of the thesis, which may be in education, an academic field, or both, depending on the student's needs.

An academic major is required of the candidate preparing to teach in secondary schools. Twelve hours or more of the work of candidates preparing to teach in elementary school will be in academic areas.

Audiovisual Specialist

CR 5000.	Research in Education	2
AH 5020.	The Secondary School	
	or AH 5040. The Elementary School	
	or AH 5430. Organization and Administration of the Community/Junior College and Technical Institute	3
AH 5050.	Supervision of Instruction	
	or AH 6490. School Facilities	3
AH 5470.	Social Foundations of Education	
	or AH 5350. Philosophy of Education	2
EM 4660.	Instructional Materials	2
EM 4750.	Audiovisual Instruction	2
EM 5280.	Production and Care of A-V Materials	2
EM 5320.	Use and Care of Machines and Equipment	2
EM 5370.	Organization and Administration of an Audiovisual Program	2
EM 5540.	Television in Instruction	2
Approved courses related to audiovisual education *or* an academic minor		14

School Administrator

CR 5000.	Research in Education	2
AH 5010.	Public School Administration	3
AH 5020.	The Secondary School	3
AH 5040.	The Elementary School	3
AH 5050.	Supervision of Instruction	2-3
AH 5060.	Curriculum Planning	2
AH 5350.	Philosophy of Education	
	or AH 5470. Social Foundations of Education	2
AH 6740.	Internship/Field Experience	2-8
Cognate Discipline (Social Sciences)		6
Electives		10

Cognate courses are to be selected in conference with the student's advisor. The purpose of cognate courses is to assist the student to gain competence in academic areas related to educational administration.

Elective courses are to be selected in conference with the student's advisor. The purpose of electives is to assist the student to gain competence in professional areas related to educational administration.

General Supervisor

Curriculum and Instructional Specialist

Prerequisite: North Carolina A Certificate or its equivalent from another state.

For departmental requirements in the secondary academic major, see the appropriate department.

One preparing for General Elementary Supervision must complete all courses required in the program leading to a Graduate Intermediate or Early Childhood Education Certificate.

AH	5020.	The Secondary School or AH 5040. The Elementary School	3
AH	5050.	Supervision of Instruction	2-3
AH	5060.	Curriculum Planning	2
AH	6740.	Internship/Field Experience	2-8
PSY	4555.	Advanced Educational Psychology	2
Academic major including academic research for secondary major			22
Academic concentration including Academic Research (CR 5000) for elementary major			14-16
Electives			0-6

Supervisor of Student Teaching

A Supervisor of student teaching must qualify for graduate certification as either an elementary or secondary teacher. The program must include AH 5050, SE 5150, and SE 5160.

CR	4560.	Measurement and Assessment	2
CR	5000.	Research in Education (Elementary Major)	2
AH	5050.	Supervision of Instruction	2-3
AH	5060.	Curriculum Planning	2
SE	5150.	Organizing and Planning Student Teaching	2
SE	5160.	Supervision of Student Teaching	3
PSY	4555.	Advanced Educational Psychology	2
Academic major including academic research (secondary major)			20
Academic concentration (elementary major)			14-16
Electives			0-6

School Librarian

Media Specialist

Prerequisites: EM 3010, 3020, 4060, 4070, 4700, 4730, and an undergraduate grade-point average of 2.75.

CR	5000.	Research in Education	2

AH 5060.	Curriculum Planning	2
AH 5350.	Philosophy of Education	2
EM 4610.	Literature of the Humanities or EM 4620. Literature of the Social Sciences or EM 4630. Literature of Science and Technology	3
EM 4660.	Instructional Materials or EM 4750. Audiovisual Instruction	2
EM 5030.	Reading, Viewing, and Listening Guidance	3
PSY 5560.	Child Psychology or PSY 5565. Adolescent Psychology	2
Electives		14-20

Junior College Librarian

Prerequisite: EM 3010, 3020, 4730, or equivalent and an undergraduate grade-point average of 2.75.

CR 5000.	Research in Education	2
AH 5430.	Organization and Administration of the Community/Junior College and Technical Institute or AH 5440. Instruction in Postsecondary Institutions (2)	3
EM 4610.	Literature of the Humanities	3
EM 4620.	Literature of the Social Sciences	3
EM 4630.	Literature of Science and Technology	3
EM 5040.	Advanced Reference and Bibliography	3
EM 5050.	Advanced Cataloging and Classification	3
EM 5100.	Administration and Organization of the Two-Year College Learning Resource Center or AH 5430. Organization and Administration of the Community/Junior College and Technical Institute	3
Electives		7-13

Elementary Education

Early Childhood School Teacher (K-3)

CR 5000.	Research in Education	2
CR 4560.	Measurement and Assessment	2
EE 4590.	Nursery-Kindergarten Curriculum and Instruction or EE 4620. Seminar in Early Childhood Education (3)	4
RE 4890.	Reading and Communications	2
EE 5130.	Teaching the Language Arts	3
AH 5470.	Social Foundations of Education	2
PSY 4555.	Advanced Educational Psychology	2
Academic Spread		12
Electives		5-6

Elementary School Teachers (4-9)

CR	5000.	Research in Education	2
EE	5460.	Elementary School Curriculum	3
		or AH 5060. Curriculum Planning (2)	
AH	5470.	Social Foundations of Education	
		or AH 5350. Philosophy of Education	2
RE	5110.	Reading and the Language Arts	2
EE	5130.	Teaching the Language Arts	3
PSY	4555.	Advanced Educational Psychology	2
MAT	4930.	Foundations of Arithmetic	3
Concentration in Academic Fields			12
Electives			7-8

Secondary School Teacher

Prerequisite: An undergraduate major in the teaching field; a North Carolina A Certificate or its equivalent in another state.

For required courses in the academic field, see the appropriate department. Majors available to secondary teachers are: biology, chemistry, economics and business, English, French, geography, history, industrial arts, library science, mathematics, music, physical education, political science, science, social science*, sociology, and Spanish.

Academic major including academic research—

With thesis			22
Without thesis			24
Professional Courses			8
CR	4560.	Measurement and Assessment	2
AH	5060.	Curriculum Planning	2
AH	5470.	Social Foundations of Education	
		or AH 5350. Philosophy of Education	2
PSY	4555.	Advanced Educational Psychology	
		or PSY 5565. Psychology of Adolescence	2
Electives			0-4

Junior College Teacher

Prerequisite: An undergraduate major in the teaching field.
For required courses in the academic field, see the appropriate department. Majors available to junior college teachers are: biology, chemistry, economics and business, English, French, geography, history, industrial arts, library science, mathematics, music, physical education, political science, psychology, sociology, social science*, and Spanish.
Academic major including academic research

With thesis	22

* See the social science section of the catalog and/or the department in which the area of concentration is offered.

Without thesis			24
Junior College Education			4
AH 5420.	The Community/Junior College and the Technical Institute	2	
AH 5440.	Instruction in Postsecondary Institutions or AH 6740. Internship/Field Experiences	2	
Electives			4-8

Higher Education

A major in Higher Education will concentrate in one of the following areas: Administration, Adult Education, or Developmental Studies.

Select from the following			23
*CR 5000.	Research in Education	2	
AH 4960.	Internship in Occupational Programs	5-10	
AH 4970.	Seminar in Occupational Instruction	3	
AH 5250.	Conflict Management in Education Administration	3	
AH 5350.	Philosophy of Education	2	
*AH 5420.	The Community/Junior College and Technical Institute	2	
AH 5430.	Organization and Administration of the Community/Junior College and Technical Institute	3	
*AH 5440.	Instruction in Postsecondary Institutions	2	
AH 5450.	Seminar on Community/Junior College	2	
AH 5470.	Social Foundations of Education	3	
AH 5500.	Independent Study	1-4	
AH 5630.	The Adult Learner	3	
AH 5700.	Educational Leadership	2-3	
AH 5810.	Program Planning in Adult and Community College Education	3	
AH 5840.	College Finance and Business Administration	3	
*AH 5890.	Developmental Studies in Postsecondary Institutions	3	
*AH 6740.	Internship/Field Experience	2-8	
Cognate areas plus electives			7-13

Music Teacher and Music Supervisor

Prerequisites: An undergraduate major in music; a North Carolina A Certificate or its equivalent; music proficiency admission requirements. All entering graduate music majors will demonstrate by examination their skills and abilities in music theory, music history and literature, performance music, and music education where it applies. Any deficiency noted may require courses or individual study in the area of the deficiency prior to admission to candidacy for the master's degree.

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* Required for a Master's Degree in Higher Education.

AH 5470.	Social Foundations of Education or AH 5350. Philosophy of Education	2
CR 4560.	Measurement and Assessment	2
AH 5060.	Curriculum Planning	2
PSY 4555.	Advanced Educational Psychology or PSY 5560. Child Psychology or PSY 5565. Psychology of Adolescence	2
MUS 5000.	Bibliography and Research	3
MUS 5032.	Organization and Supervision of School Music	2
MUS 5031.	Philosophy of Music Education	3
Music History and Literature		0-8
Music Theory		0-4
Applied Music		0-4
Advanced Conducting		0-2
MUS 5020.	Graduate Ensemble	0
Music electives		14-20

Certified School Counselor

Prerequisites: An A Certificate; screening requirements.

CR 4780.	Theory and Practice of Guidance	3
CR 4790.	Group Methods and Processes	3
CR 5140.	Psychological and Educational Testing (prerequisite: CR 4600 or equivalent)	3
CR 5000.	Research in Education	2
CR 5200.	Occupational and Educational Information	3
CR 5220.	Counseling Theory and Techniques (prerequisite: CR 4780)	3
CR 5380.	Supervised Practicum in Counseling (prerequisite: permission of department chairman)	4
Electives, including two senior-graduate courses in the area of societal forces and cultural change. (Based on prior undergraduate and graduate courses, a student may be required to take some courses in psychology and/or educational statistics either as electives or as additional courses.)		9-15

Student Personnel Worker

Student Development Specialist

(Community/Junior College Counselor/Student Development Specialist—Noncertificate program.)

CR 5410.	Student Development Functions	3
CR 5140.	Psychological and Educational Testing (prerequisite: CR 4600 or equivalent)	3
CR 5000.	Research in Education	2
CR 4790.	Group Methods and Processes	3

CR 5200. Occupational and Educational Information 3
CR 5220. Counseling Theory and Techniques 3
(prerequisite: CR 5410)
CR 5800. Internship in Student Development 4
(prerequisite: CR 5410 and permission of department chairman)
Minor and Electives: (Based on prior undergraduate and graduate courses, a student may be required to take some courses in psychology and/or educational statistics either as electives or as additional courses.) 9-15

Agency Counselor

(Noncertificate program)

CR 5140. Psychological and Educational Testing 3
CR 5000. Research in Education 2
CR 4790. Group Methods and Processes 3
CR 5200. Occupational and Educational Information 3
CR 5220. Counseling Theory and Techniques 3
(prerequisite: approval of advisor)
CR 5380. Supervised Practicum in Counseling 4
(prerequisite: permission of department chairman)
Minor and Electives (Based on prior undergraduate and graduate courses, a student may be required to take some courses in psychology and/or educational statistics either as electives or as additional courses.) 12-18

Reading Education

The graduate level reading specialization prepares individuals for teaching reading from kindergarten through grade twelve and permits the individual to teach in the area(s) of his undergraduate major.

Each individual program is planned by the student and his advisor according to educational background and objectives.

The following serves as a guide in planning each program.
Required from the following 9-10
*RE 4590. Teaching Reading 2
*SE 4620. Reading on High School and Advanced Levels ... 2
RE 4630. Reading in the Content Areas 2
RE 4890. Reading and Communications 2
RE 5110. Reading and the Language Arts 2
RE 5480. Independent Study 1-4
RE 5510. Field Experience in Reading 1-6
RE 5650. Selected Topics in Reading 1-4
RE 5590. Advanced Course in Methods and Materials in Reading 2

* Required unless taken at undergraduate level.

(No more than six hours may be taken from RE 5480, RE 5510, and RE 5650 without permission from advisor in advance.)

Required from the following 9

RE 4720. Diagnostic Remedial Reading I 3
RE 4730. Diagnostic Remedial Reading II 3
(If 5510 involved diagnosis and remediation, the number of hours may reduce the requirements proportionally in 4720 and 4730.)
RE 5080. Clinical Problems in Reading 2-6
RE 5570. Reading Curriculum: Organization, Supervision and Assessment 3
RE 5670. Research in Current Literature 3
RE 5120. Psychological Bases of Reading 2
RE 4650. Linguistics and Reading 2

Selected from the following 2-4

AH 5350. Philosophy of Education
or AH 5470. Social Foundations of Education 2
PSY 4555. Advanced Educational Psychology
or PSY 5565. Psychology of Adolescence
or PSY 5560. Child Psychology 2
CR 4560. Measurement and Assessment 2
CR 5000. Research in Education 2
Electives in Reading 14

Prior to registering for any of the following courses the student and his advisor will determine if the hours earned may be applied to the student's program and in which category.

RE 4640. Workshop in Teaching Reading 2
RE 5480. Independent Study in Reading 1-4
RE 5650. Selected Topics in Reading 1-4
RE 5710. Seminar in Reading 2

Special Education

Graduate study in Special Education is available in the following areas: Mental Retardation, Emotional Disturbance, Learning Disabilities, and Speech Pathology. Not more than 12 hours can be taken in courses numbered below 5000. At least 22 hours in the student's program of study must be in Special Education.

Mental Retardation

Prerequisite: HR 2200, HR 3370, HR 3371, HR 3372, HR 3373, HR 4574, or equivalent.

HR 4575. Contingency Management II 2
HR 5000. Research and Bibliography 2

HR 5572.	Internship	1-9
HR 5576.	Advanced Diagnostic Prescriptive Teaching	4
HR 5580.	Advanced Curriculum Design	3
HR 5581.	Seminar in Mental Retardation	3
HR 5584.	Organization and Administration of Special Education	3
HR 5585.	Assessment and Development of Adaptive Abilities	3
Electives to selected in consultation with an advisor		9-15

Emotional Disturbance

Prerequisites: HR 2200, HR 3370, HR 4574, PSY 4550 or PSY 4552, SOC 3300 or SOC 3200, HR 4581, or equivalent.

HR 4571.	Introduction to Emotional Disturbance	3
HR 4575.	Contingency Management II	2
HR 4576.	Introduction to Learning Disabilities	3
HR 5585.	Assessment and Development of Adaptive Abilities	3
HR 4580.	Teaching the Emotionally Disturbed	3
HR 5576.	Advanced Diagnostic Prescriptive Teaching	4
HR 5000.	Research and Bibliography	2
HR 5580.	Advanced Curriculum Design	3
HR 5584.	Organization and Administration of Special Education	3
HR 5572.	Internship	3-9
HR 5583.	Emotional and Behavioral Aspects of Disturbance	3
Electives to be selected in consultation with an advisor		1-4

Learning Disabilities

Prerequisites: HR 4572, HR 4576, and exposure to the course content of HR 2200, 3370, and 4574 or equivalent.

HR 4560.	Speech Disorders of Exceptional Children	2
HR 5000.	Research and Bibliography	2
HR 4571.	Introduction to Emotional Disturbance	3
HR 5578.	Neurological Disorders	3
HR 5579.	Identification and Evaluation of Learning Disabilities	3
HR 5574.	Instructional Strategies in Learning Disabilities	3
HR 5576.	Advanced Diagnostic Prescriptive Teaching	4
HR 4581.	Counseling Parents of Exceptional Children	3
HR 5545.	Seminar	3
HR 4561.	Language Disorders of Exceptional Children	2
HR 5572.	Internship	3-6
Electives to be selected in consultation with an advisor		2-4

Speech Pathology

Prerequisites: HR 2260, HR 2261, HR 2264, HR 3360, HR 3361, HR 3362, HR 3363, HR 4564, HR 4560, HR 4561, or equivalent.

HR 5000.	Research and Bibliography	2
HR 5660.	Aphasia and Cerebral Palsy	3

HR 5661.	Advanced Diagnostics	4
HR 5662.	Aural Rehabilitation	2
HR 5663.	Stuttering	2
HR 5664.	Profound Language Disorders	2
HR 5665.	Advanced Audiology	2
HR 5666.	Voice Disorders	3
HR 5545.	Seminar	3
HR 5572.	Internship	4
Electives to be selected in consultation with an advisor		3-9

Master of Arts Degree

The *academic* Master of Arts degree is offered with majors in English, geography, history, mathematics, political science, and psychology. The requirements for this degree are essentially the same as those for the Master of Arts degree for teachers, with the following exceptions:

(1) A thesis is required.

(2) A reading knowledge of foreign language, normally French or German, is required. (Candidates for the M.A. degree in mathematics have the option of selecting as an alternate to the foreign language requirement demonstrating proficiency in computer science, statistics, or another academic area, subject to the approval of the academic graduate committee in mathematics. Candidates for the M.A. degree in political science will demonstrate a proficiency in reading a foreign language or using statistics and computer science as a research tool. Candidates for the M.A. degree in geography will demonstrate a reading knowledge of a foreign language or will minor in statistics or computer science.)

(3) The oral defense of the thesis may not be substituted for the required comprehensive examination.

(4) No courses in professional education may be included in the degree program.

English

Prerequisite: Undergraduate major in English.

ENG 5000.	Bibliography and Research	2
ENG 5505.	Master of Arts Thesis	4
Electives in English		18-24
Electives in allied disciplines		0-6
	Total	30

Geography

Prerequisite: Undergraduate major in geography.

GHY 4800.	Quantitative Methods in Geography and Planning	3

GHY 5000.	Bibliography and Research	2
GHY 5350.	Theory and Method in Geography	4
GHY 5505.	Master of Arts Thesis	4
Approved electives		18
	Total	30

History

Prerequisite: Undergraduate major in history.

HIS 5000.	Bibliography and Research	2
HIS 5102.	European Historiography	2
	or HIS 5202. American Historiography	
HIS 5106.	Studies in European History	9
	or HIS 5206. Studies in American History	
HIS 5505.	Master of Arts Thesis	4
History electives		7
Electives in a related field		6
	Total	30

Mathematics

Prerequisite: Undergraduate major in mathematics.

MAT 5505.	Master of Arts Thesis	4
Approved electives in mathematics		26
	Total	30

Political Science

Prerequisite: Undergraduate major or minor in political science.

PS 5000.	Bibliography and Research	3
PS 5505.	Master of Arts Thesis	4
Electives in political science		17-23
Electives in allied discipline		0-6
	Total	30

Psychology (General-Theoretical)

Prerequisite: Undergraduate major or minor in psychology.

PSY 4650.	Physiological Psychology	3
PSY 4658.	History and Systems of Psychology	3
PSY 5000.	Research Problems	3
PSY 5505.	Master's Thesis	4
PSY 5550.	Theories of Personality	
	or PSY 5551. Theories of Learning	3
STAT 5810.	Advanced Experimental Design	3
Approved electives in psychology		5
Minor (sociology, physical or biological sciences)		6
	Total	30

Clinical Psychology

Prerequisite: Undergraduate major or minor in psychology.

Two years are required to complete this program.

CORE COURSES

PSY 5000.	Research Problems	3
PSY 5700.	Psychology Assessment I	3
PSY 5701.	Psychology Assessment II	3
PSY 5710.	Behavior Change I	3
PSY 5711.	Behavior Change II	3
PSY 5750.	Clinical Practicum I	3
PSY 5751.	Clinical Practicum II	3
PSY 5752.	Clinical Practicum III	3
PSY 5800.	Clinical Internship	6
PSY 5505.	Master's Thesis	4
Minor or Concentration		6
Electives in Psychology		8
	Total	48

Master of Science Degree

The Master of Science degree is offered with majors in chemistry and biology. Requirements for this degree, essentially the same as for the academic Master of Arts degree, include:

(1) A thesis.

(2) A reading knowledge of German, French, or Russian.

(3) An orientation examination during the first two weeks of the program.

(4) A comprehensive examination.

(5) An oral defense of the thesis.

Chemistry

Prerequisite: Undergraduate major in chemistry.

CHE 5002.	Chemical Literature (to be taken fall semester of first year)	1
CHE 5050.	Advanced Inorganic Chemistry	4
CHE 5060.	Advanced Analytical Chemistry	4
CHE 5070.	Advanced Physical Chemistry	4
CHE 5090.	Advanced Organic Chemistry	4
CHE 5505.	Master's Thesis	4
The remaining semester hours will be elected from courses in chemistry numbered 4500 and above and approved physics and mathematics courses		9
	Total	30

Biology

Prerequisite: Undergraduate major in biology.

BIO 4554.	Genetics	3
BIO 5000.	Bibliography and Research	2
BIO 5505.	Master's Thesis	4
Approved electives in biology, chemistry, and geology		21
	Total	30

Second Master's Degree

A student holding a master's degree may earn a second master's degree in another discipline. For admission to a second master's degree, the student files an application and submits transcripts and score reports on the appropriate examinations. He files an application for candidacy during the first semester and takes a comprehensive examination near the close of the last semester of the program. He plans his program of 30 semester hours with his advisor and may or may not include a thesis for four hours of credit. If he includes a thesis, at least 26 semester hours of the work must be completed at Appalachian. If he does not write a thesis, he may include up to eight semester hours of graduate work not more than six years old from another approved graduate school or eight semester hours of extension work completed through Appalachian.

The Specialist's Degree

The specialist's degree is intermediate between the master's and the doctor's degrees. Specialist degrees are offered in the following areas:

Elementary Education
Biological Sciences

Educational Leadership with concentrations of a minimum of 12 semester hours in:

Administration
Curriculum
Educational Media
Guidance and Counseling
Reading
Supervision (also available in Special Education)

Higher Education with concentrations of a minimum of 12 semester hours in:

Administration
Adult Education
Developmental Studies
Educational Media
Student Personnel
Reading

Teaching Fields: Biology, Chemistry, Economics and Business, English, French, Geography, History, Industrial Arts, Mathematics, Music, Physical Education, Political Science, Social Science, Sociology, Spanish

Admission to the specialist degree program is based upon the applicant's holding a master's degree from an accredited institution. In addition, a special formula is applied to admit students. Admission formula: first two digits of the master's degree grade-point average (GPA) plus the raw score on the Miller Analogies Test (MAT) must equal a minimum of 72. For example, John Doe has a GPA of 3.50 on his master's degree and a MAT score of 37. Now apply formula: 35 + 37 = 72. John Doe would meet minimum admission requirements. Regulations and procedures governing the master's degrees also apply to the specialist's degree. Eight semester hours taken beyond the master's degree at an approved institution may be transferred. Course requirements range from 30 to 36 semester hours of graduate work beyond the master's degree, and 36 weeks of residence are required.

The program in educational leadership prepares one in school administration, supervision, or curriculum, and leads to the 6th year Advanced Certificate for school administrators. The program in elementary education prepares one to teach in the primary school (K-3) or the intermediate school (4-9). The program in science provides for preparation for teaching in a public school or in a college. A program in education is flexible. For further information about specific majors, please contact the following persons:

Elementary Education	Chairman Department of Elementary Education
Educational Leadership and Higher Education	Chairman Department of Administration, Supervision and Higher Education
Biological Sciences	Chairman Department of Biology

Application forms may be requested from the Graduate School.

Field-Based Option

In fulfilling its obligation as a regional university, Appalachian State University provides an opportunity for persons seeking a master's or specialist degree to pursue the degree in "field-based" programs established by special arrangement. Designed primarily for other than full-time students, the "field-based" degree program provides the opportunity for such persons to extend or update their academic credentials with only short, conveniently scheduled, on-campus experiences. The bulk of the program is delivered in close proximity to the community that has requested and arranged for the "field-based" option. For details regarding this degree program option, contact the Dean of the Graduate School.

Course Numbering

Graduate students may be admitted to courses designated 4500 to 4999 if they did not take them as undergraduate students. No more than five such courses may be included in a thesis program and, normally, no more than six in a program that does not include a thesis. Occasionally, a graduate student may be permitted to include in his program courses with numbers between 3000 and 4500 provided the courses are approved by his committee and the department chairman and a special form is filled out and signed at the time the student registers for each course. (Courses required for the North Carolina A Certificate may not be approved for graduate credit.) Courses designated 5000 and above are limited to graduate students only.

Language Requirements

Candidates for the Master of Arts degree in English, geography, history, mathematics, political science, or psychology and for the Master of Science degree in biology or chemistry will be expected to demonstrate by examination a reading knowledge of a modern foreign language, usually French or German. A language other than one normally required may be substituted with the approval of the student's advisor and the Dean of the Graduate School. Computer science, statistics, or another academic area, subject to the approval of the graduate committee in mathematics, may be substituted by candidates in mathematics; statistics and computer science may be substituted by candidates in political science. Candidates in geography will demonstrate a reading knowledge of a foreign language or will minor in statistics or computer science. Two years of successful college study in a language will meet the requirement. One who has not completed two years of college credit in a language must take a language examination.

The student should apply for the language examination directly to the chairman of the Department of Foreign Languages not later than three weeks before the date the examination is scheduled. The chairman of the Department of Foreign Languages, after reviewing the student's examination paper, will submit to the Dean of the Graduate School a report of the student's performance. The Dean of the Graduate School will inform the student and his advisor by mail whether the student has passed the examination. The student must have passed the examination in a foreign language before he is permitted to file an application for a master's degree.

Application for the Degree

The graduate student must file with the Dean of the Graduate School an application for the master's or specialist's degree the first week of his final registration period. The application form may be secured from the Graduate Office. If he has qualified to apply for a certificate to teach in North Carolina, the candidate may also file an application for a certificate. This form, too, may be secured from the Graduate Office.

Commencement

Candidates for graduate degrees are expected to be present at any commencement to receive the degree in person unless excused in writing by the Dean of the Graduate School.

Expenses and Financial Aid

For information on expenses related to graduate study, see pages .
Approximately one hundred teaching fellowships and assistantships are available for the regular session. Five research fellowships carrying stipends of $1500 each are available to qualified applicants. Half-time fellows and assistants will devote twenty-four hours a week to laboratory instruction or other services to the university. Third-time and quarter-time assistants give proportionately less time to their assistantships. Assistants receive annual stipends of $2100 to $4200 and are permitted to carry an academic load of six, nine, and twelve semester hours depending upon the classification of the assistantships. Appalachian offers only a limited number of graduate assistantships for the summer session, the stipends ranging from $250 to $350 for each term.

Teaching assistantships are available in biology, chemistry, economics and business, education, English, French, geography, history, industrial arts, library science, mathematics, music, physical education, political science, psychology, social science, sociology, Spanish, special education, and speech pathology. In addition, ten dormitory counselorships are available.

Up to forty work-study assistantships paying up to $900 for the academic year and $300 for the summer are made available to qualified applicants through the Economic Opportunity Act. Students interested in a work-study assistantship are advised to write to the Director of Student Financial Aid, Appalachian State University, before April 15, for both the summer school and the succeeding academic year.

For the preparation of junior college teachers, Appalachian offers a two-year program which combines graduate study with supervised college teaching experience in any one of the following fields: audiovisual education, biology, chemistry, economics and business, English, French, geography, history, industrial arts, library science, mathematics, music, physical education, political science, psychology, social science, sociology, Spanish, and student personnel services. Twelve appointments in this program are maintained each year. An applicant is required to have at least an average of *B* on his undergraduate work. Teaching experience is desirable. The junior college teaching fellow normally receives a stipend of $5700 to $6300 paid on the basis of $1500 to $2100 during the first year and $4200 to $4800 during the second.

Anyone wishing to apply for an assistantship or a fellowship should write the Dean of the Graduate School for application forms and return them properly filled out, and he should submit two complete transcripts of his

college work not later than July 1. Applications for assistantships, fellowships, and work-study assistantships are considered only after applicants have been approved for admission to the Graduate School.
For further information related to financial aid available to graduate students, see pages 33-36.

Academic Regulations

Registration

Graduate students register at the time specified on the university calendar. Initial registration is contingent upon the receipt and approval of transcripts of all work completed in other institutions and a report of acceptable score for the Miller Analogies Test. Registration material is provided by the Office of the Registrar. A fee will be charged for late registration. See Special Fees.

Full-Time Resident Student

For full-time resident credit a student must be registered for a minimum of nine semester hours unless he is a graduate teaching fellow or assistant. Graduate students may not register for more than 15 hours a semester.

Auditors

Regular fees are charged for auditing. A student may register as an auditor for a course with the consent of the instructor and the Dean of the Graduate School. Classes audited shall count as part of the student's load, but he will receive no credit and no grade will be assigned. An auditor is expected to be regular in class attendance but may not participate in class discussions unless he is invited to do so. He is not required to take tests and examinations. An auditor who finds it necessary to discontinue his class attendance should formally drop the course.

Unclassified Graduate Students

A student doing graduate work but who has not applied for admission to Graduate School and who is not working on a definite program of graduate study leading to a graduate degree has no assurance he may be able later to count such work as fulfilling course requirements for the degree.

Foreign Students

Foreign students are encouraged to apply for admission to master's degree programs starting in September rather than at the beginning of the spring semester. Applications should be received in the Office of the Dean of the Graduate School by April 1 and all suporting documents and credentials by May 15. Applicants whose native language is not English should arrange to take *Test of English as a Foreign Language* in October

in order for the university to receive the score by April 1. A foreign student whose native language is not English should request that a report of his score be sent *before* he asks for application forms, for application forms are sent only to foreign students with a score of 500 or higher on *Test of English as a Foreign Language.*

Appalachian State University has no scholarship program for the support of foreign students. Even out-of-state fees may not be waived. After a foreign student has studied at Appalachian State University for one semester he may apply for a graduate assistantship, but out-of-state fees will not be waived while he is an assistant.

The foreign student must submit a Confidential Statement on Finances before his application for admission to Graduate School will be considered. All foreign students must have health insurance before they can be admitted.

Foreign students enrolled in other colleges and universities in the United States will not be admitted to Appalachian until they have completed, or are about to complete, study leading to a degree in the college or university they are attending.

Unmarried foreign students live in university residence halls and may take their meals at the university cafeteria. Expenses for one academic year (nine months) for the foreign student are approximately $3300.

Class Attendance

Attendance by all graduate students must be regular. Responsibility for class attendance rests with the student. In all cases work missed through absence must be made up, but permission to make up work is not automatic and is given at the discretion of the instructor. Excuses for absence from class meetings are granted by the instructor and at his discretion. A student whose attendance in classes is unsatisfactory to his instructor, his advisor, or the Dean of the Graduate School may be excluded from a course, a final examination, or a graduate program.

Student Responsibility

The graduate student is entrusted with the responsibility for his own progress. He keeps an up-to-date record of the courses he has taken in his proposed program and checks periodically with his advisor. Responsibility for errors in his program or in interpretation of regulations rests entirely with the student.

Adding and Dropping Courses

A course may be added or dropped without penalty, with the approval of the student's advisor, prior to the last day of the registration period. A course may be changed from *Audit* to *Credit* prior to the last day of the registration period but not afterwards. A course may be dropped with

a grade of *W* (withdrawn) prior to the fifth week of classes in a semester or the third week in a summer term with the approval of the instructor and the student's advisor. After that date a grade of *F* is assigned, unless an exception is granted by the Dean of the Graduate School, in which case a grade of *W* is assigned.

Withdrawal

Requests for complete withdrawal from graduate school must be made by letter to the Dean of the Graduate School. A student who has completely withdrawn from a graduate program may not resume his studies unless he has been formally readmitted. Students who withdraw without approval receive grades of *F*.

Suspension and Dismissal

Appalachian reserves the right to exclude at any time a graduate student whose conduct is deemed improper or prejudicial to the best interest of the university.

A graduate student who fails to maintain grades of at least *B* in the courses for which he is registered in any term may not be permitted to reregister as a candidate for the master's degree. However, a student may petition the Dean of the Graduate School for consideration in extenuating circumstances which may constitute a justifiable exception to this regulation. If the Dean of the Graduate School approves, the student may be permitted to register at his own risk for an additional semester.

Grades

The following grades are given in Graduate School:

A—Superior graduate accomplishment.

B—Average graduate accomplishment.

C—Below average but passing.

F—Failing grade.

I—Incomplete, given because a student has not completed the quantitative requirements of a course due to sickness or some other unavoidable cause.

W—Withdrawal, either from a course or from the university.

Y—Auditing.

S—Satisfactory, given for a practicum and a thesis and other designated courses.

U—Unsatisfactory, given for a practicum and a thesis and other designated courses.

Graduate credit accepted in fulfillment of the requirements for a graduate degree shall average not lower than *B*, and no credit toward the degree shall be granted for a grade below *C*. Course work reported "Incomplete"

must be completed within a year of the official ending of the course. A graduate student is permitted to repeat not more than one course to improve his grade. A grade of *F* is assigned to a student who arbitrarily discontinues meeting a class or who withdraws without making proper arrangements with the Dean of the Graduate School.

Changing Grades

Once an instructor has reported a grade to the Registrar, it cannot be changed except in case of error in reporting or recording. Any change made must also be reported to the Dean of the Graduate School.

Changing Majors

A student who has been approved by one department but who wishes to change to another must have the approval of the Dean of the Graduate School and of the department into which he proposes to transfer before the change may be made. In addition, the chairman of the department from which the student wishes to transfer must certify that the student is eligible to continue as a degree candidate in that department.

Examinations

In addition to the Miller Analogies Test and the National Teacher Examinations Common and Area or the Graduate Record Examination Aptitude and Advanced, which are required by all departments, qualifying examinations are administered by several departments to determine the student's qualifications for graduate study. In addition, all departments require comprehensive examinations in the major near the termination of the graduate program. These examinations may be written, oral, or a combination of the two. Composition of committees for comprehensive examinations is determined by the chairman of the major department.

Each examining committee must have at least three graduate faculty members from the major department and committees of students planning to certify for secondary teaching must include also one graduate faculty member from the Department of Secondary Education. It is the responsibility of the degree candidate to arrange with his department chairman a date for the comprehensive examination, which may not be taken before the student has been admitted to candidacy or completed at least two-thirds of his course work.

Oral examinations are required of all students presenting theses or research projects. Thesis committees are composed of at least three graduate faculty members from the major department. At the discretion of the department, the oral examination on the thesis may be substituted for the comprehensive examination.

Library Carrels

Library carrels are available to graduate students who are working on theses and special research projects. Applications for carrels are made on a semester basis to the Librarian.

Credit by Examination

Upon the recommendation of a graduate student's committee and with the approval of the chairman of the department in which it is listed, a course numbered 4500-4999 may be challenged by examination for graduate credit. Courses numbered 5000 and above may not be challenged by examination. Grades are not recorded for credit earned by examination.

Individual Study

After a graduate student has been admitted to degree candidacy, he may arrange to take courses numbered above 4499 on an individual basis provided his advisor, the chairman of the department in which the course is offered, and the instructor all agree. Appropriate forms for requesting permission to take a course by individual study are furnished by department chairmen.

Independent Study

With the approval of the instructor, the department chairman, the dean of the college, and the Dean of the Graduate School, a graduate student who has been admitted to candidacy may register for independent study in his major field. Students registered for independent study must be scheduled for regular conference periods at least weekly. As much as four semesters hours of independent study may be applied toward a graduate degree.

Transfer Credit

A student enrolled in a degree program in which a thesis is not required may normally be permitted to transfer from another graduate school up to eight semester hours of appropriate graduate credit provided grades earned are at least *B* and provided the credit will not be more than six years old at the time the degree is awarded. A student in a thesis program may be permitted to transfer up to four semester hours of appropriate resident work completed in another approved graduate school. Students wanting to transfer more than eight semester hours may appeal to the Dean of the Graduate School.

Extension

As a service to the people of Piedmont and Western North Carolina, Appalachian conducts off-campus classes. As far as possible, these classes are planned around extension centers so that adequate equipment, supplies, and materials for collateral reading may be provided. These classes usually meet for a period of three hours per week for a semester. They are taught by members of the regular faculty or by persons appointed especially for this service.

For graduate students who register for extension work, up to eight semester hours of graduate credit may be counted toward the master's degree. Extension work applied toward the master's degree will not reduce the minimum residence requirement of 36 weeks. One may transfer some credit from another graduate school and complete some extension credit, but the combined total may not exceed eight semester hours. Correspondence courses are not accepted for graduate credit.

Saturday, Late Afternoon, and Evening Classes

Appalachian also schedules Saturday, late afternoon, and evening graduate courses on campus during the fall, spring, and summer semesters. By attending a Saturday or evening class during any one semester the graduate student may earn two to three hours of graduate credit.

As much as 12 semester hours of credit earned in Saturday classes may be applied toward a graduate degree.

Internship

Internships are available to majors in school administration, junior college teaching, human resources, student personnel, political science, sociology, and psychology.

The following administrative policy governs internships.

1. An applicant for an internship must be working within a reasonable distance of the university.
2. The number of registrants for the internship is limited.
3. The intern must work under a fully certified supervisor.
4. The supervisor must express a willingness to supervise the work and provide the experiences necessary for the intern.

Election of Graduate Courses by Seniors

Provided he is otherwise qualified for admission to graduate study, a senior at Appalachian State University who is within eight semester hours of graduation besides student teaching may apply to the Dean of the Graduate School for permission to carry up to eight semester hours of graduate course work while completing the baccalaureate degree. Such a student may not register for more than 15 semester hours for a regular semester. Credit earned in this manner may not be used to meet requirements for the baccalaureate degree and, at the same time, be applied toward a master's degree.

A senior who wishes to enroll in a graduate course as an elective for undergraduate credit requirements for a major for the baccalaureate degree may apply to the chairman of his department and the Dean of the Graduate School to do so. However, any graduate course approved for this purpose may not later be applied toward a master's degree.

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A.B., Brown University; Ed.M., Rutgers University; M.A., Ph.D., Vanderbilt University. *Graduate Faculty.*

Evan H. Ashby (1970) ..... Associate Professor of Health, Physical Education and Recreation and Director of Medical Services
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Joan Askew (1965) ..... Assistant Professor of Health, Physical Education and Recreation
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Gelene Andrews Atwood (1956) ... Instructor in Chemistry
A.B., University of North Carolina at Greensboro; M.A., Appalachian State University.

John Trumbull Auston (1968) ... Professor of Speech
B.A., M.A., Ph.D., University of Denver. *Graduate Faculty.*

Dean Mason Aydelott (1971) ... Associate Professor of Art
B.F.A.. University of Florida; M.F.A., University of Nebraska.

Harvard G. Ayers (1970) ... Assistant Professor of Sociology and Anthropology
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B.A., University of Virginia; M.S.H.A., University of Alabama in Birmingham.

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B.A., M.A., Ph.D., Southern Illinois University. *Graduate Faculty.*

Richard Thomas Barker (1956) ... Associate Professor and University Librarian
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Deborah Ellen Bell (1965) ... Instructor and Assistant Catalog Librarian
B.A., Louisiana State University; M.L.S., George Peabody College.

Joanne Bell (1973) ... Instructor in Music
B.A., California State University.

Brian Carey Bennett (1971) ... Assistant Professor of Sociology and Anthropology
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Charles B. Blackburn (1969) ... Associate Professor of History and Secondary Education
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John Edward Callahan (1970) ..... Assistant Professor of Geology
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A.B., M.A., Western Kentucky State University. *Graduate Faculty.*

David Campbell (1973) ..... Assistant Professor of Military Science
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Donna H. Campbell (1965) ..... Instructor in English
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Helen Earlene Campbell (1970) ..... Instructor and Circulation Librarian
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George Carmignani (1973) ..... Assistant Professor of Health, Physical Education and Recreation
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Irvin Watson Carpenter, Jr. (1953) ..... Professor and Chairman of Biology
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Jessie Luella Carpenter (1954) ..... Assistant Professor of Human Resources
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Thomas Eugene Carpenter (1972) ..... Adjunct Assistant Professor of Administration, Supervision and Higher Education
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B.M.Ed., M.S., Florida State University; Ed.D., Arizona State University. *Graduate Faculty.*

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B.A., Shenandoah Conservatory; M.M., Cincinnati College of Music; Ph.D., Eastman School of Music.

Roy Carroll (1969) ..... Professor and Chairman of History
B.A., Ouachita Baptist University; M.A., Ph.D., Vanderbilt University. *Graduate Faculty.*

Rhoda Rhea Cerny (1974) ..... Part-time Associate Professor of Music
B.M., Eastman School of Music; M.M., Indiana University.

Phillip R. Chisholm (1974) ..... Instructor in Political Science
B.A., M.A., Appalachian State University.

Vaughn Kyle Christian (1971) ..... Associate Professor of Health, Physical Education and Recreation
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*Donald L. Clark (1969) ..... Professor of Psychology
B.A., George Washington University; B.D., Southeastern Baptist Theological Seminary; M.A., Appalachian State University; Ed.D., University of Florida. *Graduate Faculty.*

G. L. Clark, Jr. (1974) ..... Assistant Professor of Accounting and Finance
B.S., Ohio State University; M.B.A., University of Kentucky.

Hewitt B. Clark (1972) ..... Adjunct Assistant Professor of Human Resources
B.A., University of Alabama; M.A., Ph.D., University of Kansas. *Graduate Faculty.*

Judith Alta Clarke (1972) ..... Associate Professor of Health, Physical Education and Recreation
B.S., Central Missouri State College; M.A., Colorado State College; Ph.D., University of Iowa.

William Claude Clinebell (1971) ..... Assistant Professor of Health, Physical Education and Recreation
B.Ed., M.Ed., University of Toledo.

John Robert Coblentz (1973) ..... Assistant Professor and Head Reference Librarian
B.A., M.S.L.S., Wayne State University.

James Monroe Cole (1963) ..... Associate Professor of Secondary Education
B.S., M.Ed., University of Cincinnati.

Terry Wayne Cole (1971) ..... Assistant Professor of Speech
B.A., M.A., Fresno State College; Ph.D., University of Oregon.

Walton Smith Cole (1951) ..... Associate Professor of Music
A.B., Southwestern at Memphis; M.M., University of Arizona. *Graduate Faculty.*

John Paul Combs (1971) ..... Assistant Professor and Chairman of Economics
B.A., M.A., Ph.D., North Carolina State University. *Graduate Faculty.*

Ralph D. Conn (1974) ..... Instructor in Human Resources
B.S., Appalachian State University.

Mary Ursula Connell (1974) ..... Assistant Professor of Biology
A.B., M.S., Marshall University; Ph.D., Kent State University.

Walter Curtis Connolly (1963) ..... Professor of Physics
B.A., Miami University; M.S., University of Illinois; Ph.D., The Catholic University of America. *Graduate Faculty.*

Donald Cook (1973) ..... Assistant Professor of Mathematics
B.A., M.A., University of Florida; Ph.D., New Mexico State University.

Nancy Faver Cook (1965) ..... Instructor and Librarian for Juvenile Library
A.B., Texas Technical Institute; M.S.L.S., George Peabody College.

Leland Ross Cooper (1967) ..... Professor of Administration, Supervision and Higher Education
B.S., Clemson College; M.Ed., University of North Carolina at Chapel Hill; Ed.D., University of Florida. *Graduate Faculty.*

William M. Cooper (1967) ..... Professor of Secondary Education
B.S., Berry College; M.Ed., Ed.D., Auburn University. *Graduate Faculty.*

Alvis L. Corum (1970) ..... Professor and Dean of Learning Resources
B.S., Appalachian State University; M.Ed., Ed.D., University of Miami.

Thompson O. Coryell (1974) ..... Assistant Professor of Military Science
B.A., Virginia Military Institute.

William Thomas Cottingham (1973) ..... Professor of Administration, Supervision and Higher Education
A.B., Duke University; M.A., Emory University; Ph.D., Florida State University. *Graduate Faculty.*

A. Ronald Coulthard (1968) ..... Professor of English
B.S., Concord College; M.A., Ph.D., Florida State University. *Graduate Faculty.*

Roberta D. Counihan (1973) ..... Instructor in Business Administration
A.B., Western Carolina College; M.A., University of North Carolina at Chapel Hill.

Jean-Pierre Courbois (1974) ..... Assistant Professor of Economics
B.S., Lycee Henri IV; B.S., Georgetown University; M.A., Ph.D., American University.

Doris Walker Cox (1968) ..... Professor of Educational Media
A.B., Florida State College for Women; M.A., Ph.D., Florida State University. *Graduate Faculty.*

Albert L. Craven (1972) ..... Professor and Chairman of Accounting and Finance
B.A., Louisiana College; M.B.A., University of Mississippi; Ph.D., University of Alabama. *Graduate Faculty.*

Nancy B. Critelli (1974) ..... Assistant Professor of Music
B.M., M.M., University of Montana.

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*On leave from the university 1974-75 academic year.

Sandra K. Cross (1974) ..... Instructor in Health, Physical Education, and Recreation
B.S., Livingston University; M.Ed., University of North Carolina at Greensboro.

Joyce G. Crouch (1967) ..... Professor of Psychology
B.S., M.A., Tennessee Technological University; Ed.D., University of Tennessee. *Graduate Faculty.*

Rudy L. Curd (1969) ..... Assistant Professor of Mathematics
B.S., Lincoln Memorial University; M.A., Ph.D., University of Kentucky. *Graduate Faculty.*

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B.S., United States Military Academy.

Charles Thomas Davis III (1967) ..... Professor of Philosophy and Religion
B.S.Ed., University of Alabama; B.D., Candler School of Theology; Ph.D., Emory University. *Graduate Faculty.*

Fisher DeBerry (1971) ..... Instructor in Health, Physical Education and Recreation
B.A., Wofford College; M.Ed., University of Pittsburgh.

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***Warren Cameron Dennis** (1965) ..... Professor of Art
B.A., University of Southern Mississippi; M.F.A., University of Mississippi. *Graduate Faculty.*

Alfred Maxey Denton, Jr. (1962) ..... Professor and Chairman of Sociology and Anthropology
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B.S., M.S., Ph.D., University of South Carolina. *Graduate Faculty.*

Ruth Ann Dewel (1973) ..... Adjunct Assistant Professor of Biology
B.A., University of Arizona; Ph.D., University of Houston.

William C. Dewel (1972) ..... Assistant Professor of Biology
B.A., State University of Iowa; M.A., Wesleyan University; Ph.D., University of Houston.

Ramon Diaz (1970) ..... Professor of Foreign Languages
B.A., M.A., Ph.D., University of Barcelona.

MacWilliam Disbrow (1966) ..... Associate Professor of Music
B.Mus., M.Mus., Cincinnati Conservatory of Music. *Graduate Faculty.*

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John Daniel Duke (1968) ..... Professor of Psychology
A.B., M.A., Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Bobbye Kitchens Dunlap (1973) ..... Part-time Instructor in Business Administration
B.S.B.A., M.A., Appalachian State University.

Mary Montgomery Dunlap (1970) ..... Associate Professor of English
B.A., Converse College; M.A., Appalachian State University; Ph.D., University of South Carolina. *Graduate Faculty.*

William Ralph Dunlap (1970) ..... Associate Professor of Art
B.S., Mississippi College; M.F.A., University of Mississippi.

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*On leave from the university 1974-75 academic year.
*On leave from the university.

Spencer E. Durante (1971) ..... Associate Professor of Administration, Supervision and Higher Education
B.S., Shaw University; M.S., Ed.D., University of Pennsylvania. *Graduate Faculty.*

Harvey Ralph Durham (1965) ..... Professor of Mathematical Sciences and Associate Vice Chancellor for Academic Affairs
B.S., Wake Forest College; M.A., Ph.D., University of Georgia. *Graduate Faculty.*

G. Marvin Eargle (1969) ..... Associate Professor of Mathematical Sciences
B.S., University of North Carolina at Chapel Hill; M.S., Ph.D., North Carolina State University. *Graduate Faculty.*

Patricia Bonin Eargle (1969) ..... Assistant Professor of Foreign Languages
A.B., University of Chattanooga; M.A., Ph.D., University of Georgia. *Graduate Faculty.*

Grace Toney Edwards (1967) ..... Instructor in English
B.S., M.A., Appalachian State University.

Lawrence Fielding Edwards (1966) ..... Professor and Chairman of Art
B.A., University of Southern Mississippi; M.F.A., University of Mississippi. *Graduate Faculty.*

Robert Wayne Edwards (1972) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., Wake Forest University; M.A., University of North Carolina at Chapel Hill; Ed.D., George Peabody College for Teachers.

Daisy Williams Eggers (1954) ..... Associate Professor of English
B.S., M.A., Appalachian State University.

Barry Elledge (1969) ..... Associate Professor of Economics
B.S., Berea College; M.S., University of Massacbusetts; Ph.D., North Carolina State University. *Graduate Faculty.*

James Ellis (1974) ..... Adjunct Assistant Professor of Human Resources
B.A., Vanderbilt University; D.D.S., University of Tennessee.

William R. Elmore, Jr. (1973) ..... Assistant Professor of Human Resources and Elementary Education
B.A., M.A., East Carolina University; Ph.D., University of Georgia.

Ronald J. Ensey (1969) ..... Associate Professor of Mathematical Sciences and Director of Admissions Partnership Program
B.A., Hardin-Simmons University; M.S., Ph.D., New Mexico State University. *Graduate Faculty.*

Terry Elmer Epperson, Jr. (1962) ..... Professor and Chairman of Geography
B.S., East Tennessee State University; M.S., University of Kentucky; Ph.D., University of Tennessee. *Graduate Faculty.*

Nicholas Erneston (1948) ..... Professor of Music and Dean of the College of Fine and Applied Arts
B.Mus.Ed., Shenandoah Conservatory of Music; M.Mus., Cincinnati Conservatory of Music; Ph.D., Florida State University. *Graduate Faculty.*

William Morris Evans (1968) ..... Associate Professor of Foreign Languages
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Sharon Leigh Farlow (1974) ..... Instructor in Elementary Education
B.S., M.A., Appalachian State University.

Majorie F. Farris (1970) ..... Associate Professor of Reading Education
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Mary Ann Cross Farthing (1974) ..... Associate Professor of Home Economics
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Lila Flory (1973) ..... Assistant Professor of Economics
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Lorraine Force (1968) ..... Professor of Art and Secondary Education
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Silvia P. Forgus (1974) ..... Assistant Professor of History
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B.Mus. M.Mus.Ed., North Texas State University. *Graduate Faculty.*

Paul A. Fox (1970) . . . . . Associate Professor of Psychology
B.A., Hofstra University; M.A., Ph.D., Southern Illinois University. *Graduate Faculty.*

Virginia A. Foxx (1972) . . . . . Part-time Instructor in Sociology and Anthropology
A.B., M.A.C.T., University of North Carolina at Chapel Hill.

Gadsden Creighton Frampton, Jr. (1972) . . . . . Assistant Professor of Business Administration
B.A., Presbyterian College; M.B.A., Ph.D., University of South Carolina. *Graduate Faculty.*

Donald Howe Frantz, Jr. (1970) . . . . . Professor of English
B.A., M.A., Redlands University; Ph.D., University of Southern California. *Graduate Faculty.*

Susan Dohr Froehling (1974) . . . . . Assistant Professor of Psychology
A.B., M.S., Ph.D., University of Miami.

Patricia Farthing Fry (1972) . . . . . Instructor and Curriculum Library Librarian
B.A., M.S.L.S., Louisiana State University.

Frances Stone Fulmer (1961) . . . . . Assistant Professor of Mathematical Sciences and Elementary Education
A.B., Winthrop College; M.S., C.A.S., Appalachian State University.

William Edmund Fulmer (1955) . . . . . Professor of Secondary Education
A.B., Catawba College; Ed.M., University of South Carolina; Ed.D., University of Missouri. *Graduate Faculty.*

Ole Gade (1970) . . . . . Associate Professor of Geography
B.A., M.S.. Florida State University; Ph.D., Michigan State University. *Graduate Faculty.*

Verne Roger Gaither (1972) . . . . . Assistant Professor of Educational Media
B.S., M.S., Illinois State University.

Colette Sue Garrison (1970) . . . . . Assistant Professor of Health, Physical Education and Recreation
B.S., Slippery Rock State College; M.Ed., The University of Akron.

Georg Gaston (1974) . . . . . Assistant Professor of English
B.A., Texas A & M University; M.A., Ph.D., Auburn University.

Patricia Ellen Gaynor (1973) . . . . . Assistant Professor of Economics
B.S., Stetson University; M.A., Ph.D., University of Miami.

Daniel Bernard German (1972) . . . . . Associate Professor of Political Science
B.A., M.A., University of South Dakota; PhD.. Georgetown University. *Graduate Faculty.*

James L. Gillespie (1974) . . . . . Assistant Professor of History
A.B., Kenyon College; B.S., Kent State University; Ph.D., Princeton University.

Clarence Hazel Gilstrap (1964) . . . . . Associate Professor of Secondary Education and Director of Admissions
B.A., Furman University; M.A., Appalachian State University.

Arthur Spears Gloster II (1971) . . . . . Associate Professor of Business Administration and Director of the Computer Center
B.S., University of Chattanoga; M.S., Ed.S., University of Tennessee; Ed.D., Virginia Polytechnic Institute and State University.

Sandra Jean Glover (1969) . . . . . Associate Professor of Biology
B.S., Northwestern State University of Louisiana; M.Ed., Ph.D., University of Georgia. *Graduate Faculty.*

Gaye Wagoner Golds (1964) . . . . . Associate Professor and Reserve Room Librarian
B.S., M.A., Appalachian State University.

George Logan Graham (1967) . . . . . Professor of Secondary Education
B.S., M.Ed., West Texas State University; LL.D., Hardin-Simmons University. *Graduate Faculty.*

Ray Logan Graham (1963) . . . . . Professor of Mathematical Sciences
B.S., West Texas State University; M.A.T., Ph.D., New Mexico State University. *Graduate Faculty.*

William David Graham (1972) . . . . . Assistant Professor of Industrial Arts and Technical Education
A.B., M.A., Montclair State College; Ed.D., Indiana University. *Graduate Faculty.*

Lowell Clark Green (1968) . . . . . Associate Professor of History
B.A., Wartburg College; B.D., Wartburg Seminary; Dr. Theol., University of Erlangen. *Graduate Faculty.*

Violet E. Green (1968) . . . . . Part-time Instructor and Assistant Reference Librarian
B.S., University of Minnesota.

Edgar D. Greene, Jr. (1971) ..... Assistant Professor of Biology and Elementary Education
B.S., M.A., Appalachian State University; Ph.D., Florida State University.

James Albert Greene (1973) ..... Assistant Professor of Human Resources and Sociology and Anthropology.
B.A., Wake Forest University; M.S.S.W., University of Tennessee.

Melvin H. Gruensfelder (1969) ..... Assistant Professor of Health, Physical Education and Recreation and Secondary Education
B.S., M.S., University of Illinois.

Thomas Hilton Gunn (1972) ..... Assistant Professor and Music Librarian
B.S., High Point College; M.Ed., University of North Carolina at Greensboro.

Carolyn G. Hall (1974) ..... Instructor in Human Resources
B.A., Florida Atlantic University; M.S., University of Tennessee.

Ralph G. Hall (1974) ..... Associate Professor of Administration, Supervision and Higher Education
B.S., University of Tennessee; M.A., Memphis State University; Ed.D., University of Tennessee.

Stephen Francis Hall (1972) ..... Instructor in Sociology and Anthropology
B.A., M.A., Southern Illinois University.

Thomas V. Hall (1974) ..... Instructor in Speech
B.S., Defiance College; M.A., Bowling Green State University.

William D. Hammond (1974) ..... Professor and Chairman of Military Science
B.S., North Georgia College.

Sheldon Hanft (1969) ..... Associate Professor of History
B.A., City College of New York; M.A., Ph.D., New York University. *Graduate Faculty.*

William C. Hanner (1970) ..... Instructor in Industrial Arts and Technical Education
B.S., M.A., Appalachian State University.

W. Robert Harkins (1972) ..... Part-time Instructor in Business Administration
B.S., Virginia Polytechnic Institute; J.D., University of Tennessee.

J. Edward Harrill (1961) ..... Professor of Counselor Education and Research and Associate Dean of the College of Education
B.A., Berea College; M.A., Peabody College; Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

J. Braxton Harris (1958) ..... Professor of Administration, Supervision and Higher Education and Vice Chancellor for Student Affairs
A.B., Lenoir-Rhyne College; M.A., Appalachian State University; Ed.D., Indiana University. *Graduate Faculty.*

Stanley Austin Harris, Jr. (1965) ..... Part-time Assistant Professor of Accounting and Finance
B.S., Appalachian State University; M.B.A., New York University.

Audrey Hartley (1972) ..... Instructor and Assistant Librarian for Special Collections
B.S., M.A., Appalachian State University.

Ernest B. Hartley (1973) ..... Assistant Professor of Educational Media
B.S., M.A., Appalachian State University.

Peggy J. Hartley (1973) ..... Assistant Professor of Foreign Languages and Secondary Education
B.A., M.A., Appalachian State University; Ph.D., University of South Carolina. *Graduate Faculty.*

James Winslow Hathaway (1971) ..... Assistant Professor of Business Administration
A.B., Dartmouth College. *Graduate Faculty.*

Charles Jakie Haulk (1972) ..... Assistant Professor of Economics
B.S., M.A., North Carolina State University; Ph.D., Duke University. *Graduate Faculty.*

Richard Herbert Haunton (1972) ..... Professor of History
B.A., M.A., Indiana University; Ph.D., Emory University. *Graduate Faculty.*

Alan Jon Hauser (1972) ..... Assistant Professor of Philosophy and Religion
B.A., Concordia Teachers College; M.A.R., Concordia Seminary; Ph.D., University of Iowa. *Graduate Faculty.*

Martha Grey Hawkinson (1955) ..... Assistant Professor of Business Education and Office Administration
A.B., B.S.S.A., Queens College; M.A., Appalachian State University. *Graduate Faculty.*

John W. Heaton (1969) ..... Instructor and Assistant Acquisition Librarian
B.A., Milligan College; M.A.L.S., East Tennessee State University.

*David Heisser (1969) ..... Assistant Professor of History
B.S., College of Charleston; M.A., Ph.D., University of North Carolina at Chapel Hill.

Donna W. Helseth (1969) ..... Instructor in Counselor Education and Research
B.S., Appalachian State University; M.Ed., University of Georgia.

Frank Alfred Helseth (1968) ..... Associate Professor of Biology
B.S., Appalachian State University; M.S., Ph.D., University of Georgia. *Graduate Faculty.*

Richard Nelson Henson (1970) ..... Assistant Professor of Biology
B.S., Lamar State College of Technology; M.S., Ph.D., Texas A & M University. *Graduate Faculty.*

Hans G. Heymann (1969) ..... Professor of English
B.A., Friedrick Wilheim College; MA., Ph.D., University of Frankfurt. *Graduate Faculty.*

Marie Leach Hicks (1973) ..... Assistant Professor of Biology
B.S., M.A., Appalachian State University; Ph.D., University of Tennessee.

Robert Griggs Higbie (1973) ..... Assistant Professor of English
B.A., Amherst College; M.A., University of California at Berkeley; Ph.D.. Indiana University. *Graduate Faculty.*

Maynard John Higby (1967) ..... Professor of English
B.S., Clemson University; M.A., Ph.D., University of South Carolina. *Graduate Faculty.*

L. Keith Hill (1973) ..... Assistant Professor and Assistant Reference Librarian
A.B., M.S., University of North Carolina at Chapel Hill.

Loyd H. Hilton (1969) ..... Professor and Chairman of English
B.A., Wayland Baptist College; M.A., Texas Technological College; Ph.D., University of Texas. *Graduate Faculty.*

Marvin K. Hoffman (1970) ..... Assistant Professor of Political Science
B.A., Rutgers University; M.A., Ph.D., University of Georgia. *Graduate Faculty.*

John W. Holloway (1974) ..... Instructor in Counselor Education and Research
B.A., Albany State College; M.A., University of South Florida.

Kenneth A. Holsten (1974) ..... Assistant Professor of Foreign Languages
B.A., M.A., University of California at Santa Barbara; Ph.D., University of California at San Diego.

Ralph G. Holt (1974) ..... Adjunct Assistant Professor of Human Resources
B.A., B.S., University of North Dakota; M.D., University of Pennsylvania School of Medicine; M.P.H., Harvard School of Public Health.

Oscar Dile Holton, Jr. (1968) ..... Professor of English
B.A., Wayland College; M.A., Ph.D., Texas Technological University. *Graduate Faculty.*

Alvin Ray Hooks (1970) ..... Professor and Chairman of Administration, Supervision and Higher Education
B.S., M.A., Appalachian State University; Ph.D., University of Michigan. *Graduate Faculty.*

Francis Lentz Hoover (1945) ..... Professor of Health, Physical Education and Recreation
B.S., Appalachian State University; M.A., University of North Carolina at Chapel Hill; Dir. P.E., D.P.E., Indiana University. *Graduate Faculty.*

Rena Caldwell Hoover (1955) ..... Assistant Professor of History
A.B., Coker College; M.A., Appalachian State University.

Lawrence Edward Horine (1968) ..... Professor and Chairman of Health, Physical Education and Recreation
B.S., M.A., Ed.D., University of Colorado. *Graduate Faculty.*

Ben Haskell Horton (1950) ..... Professor of Administration, Supervision and Higher Education
B.S., M.A., Appalachian State University; Ed.D., Florida State University. *Graduate Faculty.*

Joann Horton (1973) ..... Instructor in Foreign Languages and Assistant Director of Placement

James W. Hosch (1974) ..... Assistant Professor of Human Resources
B.A., M.A., Appalachian State University.
B.S., Auburn University; M.A., Florida State University.

Samuel Houston (1974) ..... Adjunct Assistant Professor of Health, Physical Education and Recreation
B.S., M.A., Appalachian State University.

Charles E. Howard (1974) ..... Educational Media Specialist
B.S., Campbell College; M.A., Appalachian State University.

Richard D. Howe (1973) ..... Associate Professor of History and Administration, Supervision and Higher Education and Assistant to the Chancellor
B.S., M.A., Appalachian State University; Ph.D., University of California at Los Angeles.

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*On leave from the university.

Guy F. Hubbard (1974) ..... Adjunct Associate Professor of Psychology
B.B.A., M.Ed., North Texas State University.

William C. Hubbard (1972) ..... Associate Professor of Counselor Education and Research
B.Mus., M.Ed., University of Miami; M.S., Indiana University; Ed.D., University of Miami. *Graduate Faculty.*

William Ralph Hubbard (1969) ..... Associate Professor of Biology
B.S., Appalachian State University; Ph.D.. University of North Carolina at Chapel Hill. *Graduate Faculty.*

Mary Alice Huff (1942) ..... Assistant Professor and Catalog Librarian
A.B., Limestone College; B.S.L.S., George Peabody College for Teachers.

Peyton Albert Hughes (1968) ..... Professor of Sociology and Anthropology and Secondary Education
B.A., M.A., Ph.D., Mississippi State University. *Graduate Faculty.*

Lloyd J. Hughlett (1973) ..... Assistant Professor of Business Administration
B.A., St. Joseph College; M.A., University of Southern California.

Judy Lucille Humphrey (1973) ..... Instructor in Art
B.F.A., M.F.A., University of Georgia.

Richard Alan Humphrey (1970) .... Professor and Chairman of Philosophy and Religion
B.A., Cornell College; B.D., Drew Theological Seminary; Ph.D., Drew University. *Graduate Faculty.*

E. Stanley Hunter (1973) ..... Adjunct Assistant Professor in Human Resources
A.B., Emory University; M.P.H., University of North Carolina at Chapel Hill.

Daniel F. Hurley (1969) ..... Associate Professor of English
B.A., The Sulpician Seminary of the Northwest; M.A., Ph.D., Louisiana State University.

Daniel Eugene Hursh (1973) ..... Adjunct Assistant Professor of Human Resources
B.A., University of Oregon; M.A., Ph.D., University of Kansas.

Raymond James Hyer (1972) ..... Associate Professor of Human Resources and Secondary Education
B.A., Ed.M., Rutgers University; Ph.D., Florida State University. *Graduate Faculty.*

William Imperatore (1969) ..... Professor of Geography and Elementary Education
B.S., Slippery Rock State College; M.A., Ed.D., University of Georgia. *Graduate Faculty.*

Cordelia Rugeley Inks (1970) ... Assistant Professor and Assistant Catalog Librarian
B.S., M.L.S., Texas University.

Frances Virginia Irons (1968) ..... Assistant Professor of Home Economics
B.S., University of North Carolina at Greensboro; M.S., Virginia Polytechnic Institute.

Charles Lee Isley (1958) ..... Professor of Music and Secondary Education
B.S., Davidson College; M.A., Appalachian State University; Ed.D., North Texas State University. *Graduate Faculty.*

James W. Jackson (1970) ..... Associate Professor of History and Administration, Supervision and Higher Education, Dean of the College of Continuing Education and Director of Summer Sessions
B.A., M.A., University of Florida; Ph.D., University of Miami. *Graduate Faculty.*

Carolyn Jamison (1972) ..... Instructor and Government Documents Librarian
A.B., M.S.L.S., University of North Carolina at Chapel Hill.

William Thomas Jamison (1970) ..... Assistant Professor of Secondary Education
A.B., M.A.T., Ph.D., University of North Carolina at Chapel Hill.

Kenneth D. Jenkins (1974) ..... Associate Professor of Administration, Supervision and Higher Education and Assistant Dean for Field Relations
B.A.E., University of Florida; M.Ed., Ed.D., University of Miami.

Basil G. Johnson, Jr. (1967) ..... Professor of Psychology
B.A., University of Oklahoma; M.A., University of Tulsa; Ed.D., Oklahoma State University. *Graduate Faculty.*

James Edwin Johnson (1962) ..... Professor of Chemistry
B.S., Emory and Henry College; M.S., Ph.D., Virginia Polytechnic Institute. *Graduate Faculty.*

Isabel Fleming Jones (1953) ..... Professor of Reading Education
B.S., M.Ed., Ed.D., University of Virginia. *Graduate Faculty.*

James Frederick Jones (1956) ..... Associate Professor of Accounting and Finance and Athletic Director
A.B., Elon College; M.A., East Carolina University. *Graduate Faculty.*

Kyle Chester Jones (1971) ..... Part-time Instructor in Accounting and Finance
B.A., East Carolina University; M.A., Appalachian State University.

Ray G. Jones, Jr. (1973) ..... Assistant Professor of Accounting and Finance
B.S., M.S., Florida State University.

Robert Sommerville Jones (1971) ..... Associate Professor of Elementary Education
B.A., Wake Forest University; M.Ed., Ph.D., University of South Carolina. *Graduate Faculty.*

Barbara Adele Justice (1965) ..... Assistant Professor of Music
B.S., M.A., Appalachian State University.

Ila Taylor Justice (1949) ..... Associate Professor of Educational Media
A.B., Berea College; B.S.L.S., M.S.L.S., George Peabody College.

Ronald West Kanoy (1966) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., M.A., Appalachian State University.

***Peter Karavites** (1971) ..... Assistant Professor of History
M.A., University of Chicago; Ph.D., Loyola University.

***Jane Fuller Kauffman** (1970) ..... Assistant Professor of Foreign Languages
B.A., M.A., University of Alabama.

Lester Dean Keasey (1967) ..... Professor of Sociology and Anthropology
A.B., Gettysburg College; B.D., Lutheran Theological Seminary; A.M., New York University; Ph.D., University of Pittsburgh. *Graduate Faculty.*

Larry Gene Keeter (1971) ..... Assistant Professor of Sociology and Anthropology
B.A., Berea College; B.D., Th.M., Harvard Divinity School; Ph.D., Boston University.

***Allen Franssen Kindt** (1971) ..... Associate Professor of Music
B Mus., Curtis Institute of Music; M.S., Julliard School of Music; D.M.A., University of Michigan.

Winston Lee Kinsey (1969) ..... Associate Professor of History
B.A., M.A., Baylor University; Ph.D., Texas Technological College.

Frederick W. Kirchberg (1973) ..... Instructor in Human Resources
B.S., Western Carolina University; M.A., Appalachian State University.

Anita Narvarte Kitchens (1973) ..... Instructor in Mathematics
B.A., University of Texas; M.A., University of Arizona.

Larry Joe Kitchens (1972) ..... Assistant Professor of Mathematical Sciences
B.S., West Texas State University; M.A., Ph.D., University of Arizona. *Graduate Faculty.*

Joseph Pat Knight (1972) ..... Assistant Professor of Elementary Education
A.B., M.A., New Mexico State University; Ed.D., University of Northern Colorado. *Graduate Faculty.*

William Herbert Knight (1971) ..... Professor of Psychology and Human Resources
B.S., Madison College; B.S., Ph.D., Michigan State University. *Graduate Faculty.*

Ken Koenig (1974) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., Kent State University; B.S., Ohio State University; M.S., Akron University.

Ernest Paul Lane (1970) ..... Associate Professor of Mathematical Sciences
B.A., Berea College; M.A., University of Tennessee; Ph.D., Purdue University. *Graduate Faculty.*

Ernest K. Lange (1973) ..... Associate Professor of Human Resources and Health, Physical Education and Recreation
B.S., M.S., Ed.D., University of New Mexico. *Graduate Faculty.*

Ruby J. Lanier (1974) ..... Associate Professor of History and Elementary Education
A.B., Lenoir-Rhyne College; M.A., Appalachian State University; Ed.D., Duke University.

Lawrence Andrew Larsen (1971) ..... Adjunct Assistant Professor of Human Resources
B.A., M.A., University of North Dakota; Ph.D., George Peabody College.

Edgar Ole Larson (1968) ..... Professor of Health, Physical Education and Recreation
B.A., St. Olaf College; M.S., Washington State University; Ed.D., University of Oregon. *Graduate Faculty.*

Raymond Leigh Larson (1972) ..... Associate Professor of Accounting and Finance
B.A., M.B.A., Washington State University; D.B.A., University of Oregon. *Graduate Faculty.*

Helen Latour (1971) ..... Associate Professor of Foreign Languages
A.B., Emmanuel College; M.A., Boston College; Ph.D., University of North Carolina at Chapel Hill.

Joyce V. Lawrence (1972) ..... Associate Professor of Elementary Education
B.A.E., M.E., Ed.D., University of Florida. *Graduate Faculty.*

Richard Herbert Levin (1970) ..... Professor of Psychology
B.S., Rutgers University; M.A., Ph.D., University of Florida. *Graduate Faculty.*

***Alice Jane Lewis** (1970) ..... Instructor in Home Economics
A.B., Meredith College; M.S., University of North Carolina at Greensboro.

Helena F. Lewis (1973) ..... Assistant Professor of History
B.A., Radcliffe College; Ph.D., New York University.

Juanita F. Lewis (1974) ..... Instructor in English
B.S., M.A., Appalachian State University.

*On leave from the university.

Leon Henry Lewis (1972) ..... Assistant Professor of English
B.A., Oberlin College; M.A., University of Pennsylvania; Ph.D., State University of New York. *Graduate Faculty.*

Linda G. Ligate (1974) ..... Instructor in Music
B.M.. University of British Columbia; M.M., University of Illinois.

Thomas Joe Liggett (1971) ..... Instructor in Educational Media
A.B., University of Miami.

Robert George Light (1957) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., M.S., Washington University.

Grace Greene Lilly (1967) ..... Associate Professor and Chairman of Elementary Education
B.S., Appalachian State University; M.A., University of North Carolina at Chapel Hill. *Graduate Faculty.*

J. Gordon Lindsay, Jr. (1969) ..... Associate Professor of Physics
B.S., M.S., Ph.D., Virginia Polytechnic Institute.

Joseph C. Logan (1966) ..... Professor of Music and Dean of the College of Education
B.F.A., M.F.A., University of Georgia; Ph.D., Florida State University. *Graduate Faculty.*

Susan Horne Logan (1966) ..... Professor of English and Secondary Education
A.B., M.A., University of Georgia; Ph.D., Florida State University. *Graduate Faculty.*

James D. Long (1972) ..... Assistant Professor of Psychology and Secondary Education
B.S., Western Carolina University; M.A., Appalachian State University; Ed.D., University of Tennessee. *Graduate Faculty.*

Noyes Capehart Long (1969) ..... Associate Professor of Art
B.F.A., Auburn University; M.A., University of Missouri.

Frank M. Lovrich (1965) ..... Professor of Sociology and Anthropology
A.B., Southeastern Louisiana State University; M.A., University of South Dakota; Ph.D., South Dakota State University. *Graduate Faculty.*

George E. Lyne, Jr. (1973) ..... Assistant Professor of Business Administration and Director of the Center for Management Development
B.S., Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Doris S. Lyons (1974) ..... Assistant Professor of Administration, Supervision, and Higher Education
B.S., M.S., Ed.D., University of Tennessee.

Robert Joseph Lysiak (1973) ..... Assistant Professor of English
B.A., Hofstra University; Ph.D., Ohio University.

Ronald D. McCullagh (1972) ..... Assistant Professor of Business Education and Office Administration
B.S., M.S., University of North Dakota; Ph.D., University of Northern Colorado.

Charles E. McDaniel (1971) ..... Associate Professor of Health, Physical Education and Recreation
B.S., M.S., Florida State University; Ph.D., Michigan State University.

Harry L. McDonald (1972) ..... Associate Professor of Health, Physical Education and Recreation
B.S., M.A., Murray State University; Ph.D., Michigan State University.

Kendall Lee McDonald (1974) ..... Assistant Professor of Mathematical Sciences
B.A., M.S., Southern Illinois University; Ph.D., University of Missouri at Columbia.

Arnold David McEntire (1962) ..... Associate Professor of Mathematical Sciences
B.S., M.A., Appalachian State University.

Charles K. McEwin, Jr. (1973) ..... Assistant Professor of Elementary Education
B.S., M.Ed., East Texas State University; Ed.D., North Texas State University.

Betty H. McFarland (1962) ..... Instructor in English
B.S., M.A., Appalachian State University.

Robert B. McFarland (1961) ..... Associate Professor of Educational Media
B.S., M.A., Appalachian State University.

Thomas A. McGowan (1972) ..... Assistant Professor of English
B.A., University of Notre Dame; M.A., Ph.D., University of Virginia.

Richard B. McKenzie (1972) ..... Associate Professor of Economics
B.S., Pfeiffer College; M.A., University of Maryland; Ph.D., Virginia Polytechnic Institute. *Graduate Faculty.*

F. Kenneth McKinney (1968) ..... Associate Professor of Geology
B.S., Old Dominion College; M.S., Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Shah Mahmoud (1971) ..... Professor of Business Administration
B.B.A., M.B.A., Toledo University; Ph.D., Columbia University. *Graduate Faculty.*

Emory V. Maiden, Jr. (1973) ..... Assistant Professor of English
B.A., University of Richmond; M.A., Ph.D., University of Virginia.

Carlton Maile (1973) ..... Assistant Professor of Business Administration
B.S., M.S., University of Michigan.

Karen B. Maloney (1973) ..... Assistant Professor of Human Resources
B.A., Colorado College; M.A., Ph.D., University of Kansas. *Graduate Faculty.*

Clara Zebroski Mamola (1972) ..... Instructor in Secondary Education
A.B., State University of New York; M.A., The Florida State University.

Karl Charles Mamola (1965) ..... Associate Professor of Physics
B.S., State University of New York; M.S., Florida State University; Ph.D., Dartmouth College.

Alexander A. Manning (1973) ..... Adjunct Assistant Professor of Psychology
B.A., M.S., Ph.D., University of Miami.

Peter Maravich (1972) ..... Associate Professor of Health, Physical Education and Recreation
B.A., B.S., Davis and Elkins College; M.A., West Virginia University.

Robert Stephen Maris (1972) ..... Assistant Professor of Psychology
B.A., University of Arkansas at Little Rock; M.A., Ph.D., University of Alahama. *Graduate Faculty.*

William Michael Martin (1972) ..... Instructor in Secondary Education
B.A., Furman University; M.A., Appalachian State University.

Alvaro Martinelli (1974) ..... Assistant Professor of Accounting and Finance
Laurea, University of Genoa, Italy; M.B.A., Ph.D., North Texas State University.

William Wilson May (1972) ..... Assistant Professor of Psychology
B.S., M.A., East Tennessee State University; Ph.D., University of Georgia. *Graduate Faculty.*

Millard M. Meador (1969) ..... Professor of Human Resources
B.A., M.A., Ph.D., Wayne State University. *Graduate Faculty.*

Janet S. Mears (1973) ..... Instructor in Elementary Education
B.A., Grove City College; M.A., Appalachian State University.

Carl G. Meeks (1958) ..... Professor of Health, Physical Education and Recreation
B.S., East Tennessee State University; M.A., University of Mississippi; Ed.D., Columbia University. *Graduate Faculty.*

Scott R. Meister (1974) ..... Instructor in Music
B.M., Ashland College; M.M., University of Miami.

William Dean Meredith (1962) ..... Assistant Professor of Elementary Education
B.A., Lynchburg College; M.Ed., University of Virginia.

Jay Mesbahee (1974) ..... Associate Professor of Speech
B.A., Pahlavi University; M.Ed., Mercer University; Ph.D., Florida State University.

***Carl John Messere** (1962) ..... Associate Professor of Accounting and Finance
B.S., M.A., Appalachian State University.

Henry Gaston Michaux (1972) ..... Associate Professor of Art
B.F.A., Texas Southern University; M.Ed., Ed.D., The Pennsylvania State University.

David Nathaniel Mielke (1972) ..... Assistant Professor of Secondary Education and Political Science
B.S., East Tennessee State University; M.S., The University of Tennessee.

George Benjamin Miles (1961) ..... Professor and Chairman of Chemistry
B.S., Ph.D., University of Tennessee. *Graduate Faculty.*

Napoleon Andrew Miller (1965) ..... Professor and Chairman of Secondary Education
B.S., Western Carolina University; M.Ed., Springfield College; Ed.D., University of Tennessee. *Graduate Faculty.*

Stephen W. Millsaps (1972) ..... Assistant Professor of Economics and Associate Dean of the General College
B.S., Ph.D., North Carolina State University. *Graduate Faculty.*

Faye Juliette Mitchell (1963) ..... Assistant Professor and Periodicals Librarian
A.B., Winthrop College; M.A.L.S., George Peahody College for Teachers.

Carl A. Moeller (1972) ..... Associate Professor of Industrial Arts and Secondary Education
B.A., Michigan State University; M.Ed., Texas A & M University; Ed.D., Wayne State University. *Graduate Faculty.*

Francis Montaldi (1970) ..... Associate Professor of Biology
B.S., M.A., Appalachian State University; Ed.D., University of Georgia. *Graduate Faculty.*

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*On leave from the university.

Mary Rowena Moore (1967) ..... Professor of English
B.S., Western Michigan University; M.S., Ed.D., Indiana University. *Graduate Faculty.*

Michael Jonathon Moore (1971) ..... Associate Professor of History and Director of Watauga College
B.A., M.A., Ph.D., University of Washington.

Richter H. Moore, Jr. (1970) ..... Professor and Chairman of Political Science
B.S., LL.B., University of South Carolina; M.A., Ph.D., University of Kentucky. *Graduate Faculty.*

J. Patrick Morgan (1973) ..... Instructor in Political Science
B.S., University of North Carolina at Chapel Hill; J.D., University of Mississippi.

James S. Morris, Jr. (1973) ..... Instructor in Health, Physical Education and Recreation
B.A., Milligan College; M.A., University of North Carolina at Chapel Hill.

William Truett Moss (1970) ..... Professor of Psychology
A.B., Mercer University; M.S., Ph.D., University of Georgia. *Graduate Faculty.*

Roland F. Moy (1970) ..... Associate Professor of Political Science
B.S., Wisconsin State University; M.A., Ph.D., Ohio State University. *Graduate Faculty.*

John Mulgrew (1971) ..... Associate Professor of Counselor Education and Research and Director of Psychological Services Center
B.S., Fordham University; M.S., St. John's University; Ph.D., Florida State University. *Graduate Faculty.*

Joseph Long Murphy (1964) ..... Assistant Professor of Secondary Education
A.B., Stetson University; M.A., George Peabody College for Teachers.

Carl W. Myers (1974) ..... Assistant Professor of Geology
B.S., M.S., University of Georgia; Ph.D., University of California.

Mayrelee Newman (1969) ..... Associate Professor of Administration, Supervision and Higher Education
B.A., Washington State University; M.L.S., University of Washington.

William Jackson Newton (1967) ..... Associate Professor of Music
B.Mus.Ed., Southern State College; M.Mus.Ed., Ed.D., North Texas State University. *Graduate Faculty.*

Leland L. Nicholls (1971) ..... Assistant Professor of Geography and Assistant to the Dean of the College of Arts and Sciences
B.A., M.A., Colorado State College; Ph.D., University of Tennessee.

Robert Clair Nicklin (1967) ..... Professor and Chairman of Physics
B.S., South Dakota School of Mines; Ph.D., Iowa State University. *Graduate Faculty.*

Donald P. Olander (1969) ..... Associate Professor of Chemistry
B.S., Washburn University of Topeka; M.S., Ph.D., University of Nebraska. *Graduate Faculty.*

Alfred Benjamin Overbay (1967) ..... Instructor in Chemistry
B.S., M.A., Appalachian State University.

Clyde Charles Owen (1962) ..... Professor of Industrial Arts and Technical Education
B.S., M.S., Texas College of Arts and Industries. *Graduate Faculty.*

Harry Gilmore Padgett (1967) ..... Professor of Counselor Education and Research
B.A., Furman University; B.D., Th.M., Southeastern Seminary; M.Ed., Ed.D., University of Georgia. *Graduate Faculty.*

O'Hyun Park (1971) ..... Assistant Professor of Philosophy and Religion
B.D., Yonsei University; Ph.D., Temple University. *Graduate Faculty.*

Gerald Lee Parker (1973) ..... Associate Professor of Reading Education
A.B., Marion College; M.Ed., University of North Carolina at Greensboro; Ed.D., University of Georgia. *Graduate Faculty.*

Robert Clinton Parker (1972) ..... Assistant Professor of Music and Assistant to the Dean of the College of Fine and Applied Arts
B.S., Appalachian State University; M.M.C.A., University of North Carolina at Chapel Hill.

Devendra S. Pathak (1974) ..... Associate Professor of Business Administration
B. Com., LL.B., M. Com., Gajarat University, India; M.S., Southern Illinois University; M.B.A., D.B.A., Michigan State University.

Howard William Paul (1970) ..... Associate Professor of Mathematical Sciences and Secondary Education
A.B., Capital University; M.A., Bowling Green State University; Ph.D., Ohio State University. *Graduate Faculty.*

Philip Malcolm Paul (1966) ..... Associate Professor of Music
B.Mus., M.Mus., University of Miami; Ph.D., University of Georgia.

Darryll T. Pederson (1973) ..... Assistant Professor of Geology
B.S., Valley City State College; M.S., Ph.D., University of North Dakota. *Graduate Faculty.*

Lynn McIver Perry (1968) ..... Associate Professor and Chairman of Mathematical Sciences
B.S., M.A., Ph.D., North Carolina State University. *Graduate Faculty.*

Stephen M. Perry (1974) ..... Instructor of Sociology and Anthropology
B.A., University of North Carolina at Chapel Hill; M.A., Appalachian State University.

Peter Petschauer (1968) ..... Associate Professor of History
B.A., Washington Square College of New York University; M.A., Ph.D., New York University. *Graduate Faculty.*

Joe Frank Phelps (1971) ..... Instructor in Music
B.Mus.Ed., Indiana University; M.Mus.Ed., Eastern Kentucky University.

Edward Lee Pilkington (1970) ..... Assistant Professor of Speech
B.F.A., Ithaca College; M.F.A., University of North Carolina at Greensboro.

Susan Plate (1974) ..... Instructor in Educational Media
B.A., Marian College; M.A., University of Wisconsin.

Mary Frank Poe (1974) ..... Instructor in Home Economics
B.S., Appalachian State University.

Robert A. Pollock (1974) ..... Instructor in Health, Physical Education and Recreation
B.S., The Citadel; M.Ed., University of Georgia.

Margaret Ruth Polson (1971) ..... Assistant Professor of Art
B.F.A., M.S., Cornell University; M.F.A., State University of Iowa.

Fergus Pope (1971) ..... Adjunct Associate Professor of Human Resources
B.A., Colgate University; B.S., M.B., University of London; M.R.C.S., The Royal College.

Charles Ellington Porterfield (1968) ..... Professor and Chairman of Speech
B.A., Birmingham—Southern University; M.A., State University of Iowa; Ph.D., Louisiana State University. *Graduate Faculty.*

Elton George Powell (1968) ..... Associate Professor of Foreign Languages
A.B., Florida Southern College; B.D., Emory University; M.A., Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

***Mary Wells Powell (1967)** ..... Assistant Professor of Psychology
A.B., M.S., University of North Carolina at Chapel Hill.

William M. Preston (1974) ..... Instructor in Health, Physical Education and Recreation

Harris Prevost (1973) ..... Part-time Instructor in Accounting and Finance
B.S., University of North Carolina at Chapel Hill; M.B.A., Georgia State University.

Uberto Price (1955) ..... Professor and Chairman of Reading Education
B.S., Eastern Kentucky State University; M.A., Western Kentucky University. *Graduate Faculty.*

James Roy Prince (1960) ..... Professor and Chairman of Foreign Languages
B.A., University of South Carolina; M.A., Ph.D., University of North Carolina at Chapel Hill.

John A. Pritchett, Jr. (1956) ..... Associate Professor of Educational Media
A.B., M.A., George Peabody College for Teachers. *Graduate Faculty.*

Judith Poss Pulley (1973) ..... Associate Professor of History
B.A., Webster College; Ph.D., University of Virginia. *Graduate Faculty.*

Raymond H. Pulley (1973) ..... Associate Professor of History
B.A., Old Dominion University; M.A., Emory University; Ph.D., University of Virginia. *Graduate Faculty.*

Burton Lewin Purrington (1970) ..... Assistant Professor of Sociology and Anthropology
B.A., Carleton College; M.A., University of Kentucky; Ph.D., University of Wisconsin. *Graduate Faculty.*

As'ad Adib Rahhal (1970) ..... Professor of Political Science
B.A., M.A., American University of Beirut; Ph.D., Syracuse University. *Graduate Faculty.*

Beatrix Blanton Ramey (1958) ..... Assistant Professor of Elementary Education
B.S., Appalachian State University; M.A., University of North Carolina at Chapel Hill.

John Frank Randall (1957) ..... Professor of Biology
A.B., University of North Carolina at Chapel Hill; M.S., University of Michigan; Ph.D., University of South Carolina. *Graduate Faculty.*

Robert Lee Randall (1960) ..... Professor of Administration, Supervision and Higher Education and Director of Placement
B.S., East Tennessee State University; M.A., University of North Carolina at Chapel Hill; Ed.D., Harvard University. *Graduate Faculty.*

Alfred Valentine Rapp (1971) ..... Assistant Professor of Industrial Arts and Technical Education
B.S., M.Ed., Kent State University; Ed.D., University of Northern Colorado. *Graduate Faculty.*

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*On leave from university.

Loren Arthur Raymond (1972) . . . . . Assistant Professor of Geology
B.S., M.S., San Jose State College; Ph.D., University of California at Davis. *Graduate Faculty.*

Gregory George Reck (1972) . . . . . Assistant Professor of Sociology and Anthropology
B.A., University of Houston; M.A., Ph.D., Catholic University of America.

Laurie Tully Reed (1966) . . . . . Assistant Professor of English
A.B., M.A., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Eric F. Reichard (1973) . . . . . Instructor in Industrial Arts and Technical Education
B.S., M.A., Appalachian State University.

Mary Reichle (1974) . . . . . Adjunct Assistant Professor in Human Resources
B.S.N., M.S.N., University of North Carolina at Chapel Hill.

Peter C. Reichle (1974) . . . . . Assistant Professor of Health, Physical Education and Recreation
A.B., M.S.W., M.P.H., University of North Carolina at Chapel Hill.

Robert Ellis Reiman (1963) . . . . . Professor of Geography and Dean of University Research Services
B.S., M.A., Ph.D., Florida State University. *Graduate Faculty.*

R. Cranstoun Reinoso (1973) . . . . . Associate Professor of Accounting and Finance
B.S.B.A., University of Florida; Ph.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

John S. Reynolds (1972) . . . . . Associate Professor of Administration, Supervision and Higher Education
B.A., University of Akron; MA., Appalachian State University; Ed.D., University of Tennessee.

Thomas C. Rhyne (1972) . . . . . Assistant Professor of Chemistry
B.S., M.A., Appalachian State University; Ph.D., Virginia Polytechnic Institute. *Graduate Faculty.*

Robert Lee Richardson (1966) . . . . . Professor of Mathematical Sciences
B.S., Castleton State College; M.S., University of Notre Dame; Ph.D., University of Florida. *Graduate Faculty.*

Bruce Nicholas Richter (1973) . . . . . Instructor in Human Resources
B.A., Louisiana State University; M.A., University of North Carolina at Chapel Hill.

Mary Ann Carroll Richter (1973) . . . . . Assistant Professor of Philosophy and Religion
B.A., Louisiana State University; M.A., Ph.D., University of North Carolina at Chapel Hill.

Edward Rickard (1974) . . . . . Adjunct Professor of Business Administration
B.S., M.I.T.; M.A., Columbia University; Ph.D., University of Colorado.

Janice G. Rienerth (1973) . . . . . Instructor in Sociology and Anthropology
B.A., Ohio University; B.S., M.A., Southern Illinois University.

Jane Margaret Riner (1956) . . . . . Associate Professor of Business Education and Office Administration and Academic Adviser, College of Business
B.S., M.A., Appalachian State University. *Graduate Faculty.*

Virginia F. Ritter (1973) . . . . . Associate Professor of Elementary Education
B.S., Morris Harvey College; M.A., Teachers College, Columbia University; Ph.D., Florida State University.

Arthur J. Robarge (1973) . . . . . Assistant Professor in Human Resources
B.A., Gettyshurg College; M.A., Ph.D., University of Connecticut. *Graduate Faculty.*

James R. Roberts (1967) . . . . . Associate Professor of Secondary Education
A.B., East Carolina University; M.Mus.Ed., University of Illinois.

***Sandra Robertson** (1969) . . . . . Assistant Professor of Music
B.Mus., Oberlin Conservatory; M.Mus., Indiana University.

Fred Turner Robinette, Jr. (1971) . . . . . Instructor in Elementary Education and Director of Alumni Affairs
B.S., M.A., Appalachian State University.

David Thomas Robinson (1966) . . . . . Professor of Counselor Education and Research
B.S., M.S., Ed.D., University of Tennessee. *Graduate Faculty.*

Kent Robinson (1956) . . . . . Professor of Biology
B.S., M.A., Appalachian State University; Ph.D., Ohio State University. *Graduate Faculty.*

Elmo Roesler (1971) . . . . . Assistant Professor of Administration, Supervision and Higher Education
A.B., Lake Forest College; M.A., University of Wyoming; Ph.D., University of Denver.

Thomas Leo Rokoske (1964) . . . . . Associate Professor of Physics
B.S., Loyola University; M.S., Florida State University; Ph.D., Auburn University.

Peter M. Rose (1973) . . . . . Instructor in Speech
B.A., Eureka College; M.A., University of Arkansas.

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*On leave from university.

Carl Augustus Ross, Jr. (1968) ..... Professor of History
A.B., Berry College; M.A., Ph.D., University of Georgia. *Graduate Faculty.*

Charlotte T. Ross (1969) ..... Instructor in Elementary Education and Appalachian Room Librarian
A.B., University of Dubuque; M.A., Georgia Southern College.

Celia Sue Roten (1966) ..... Instructor in Home Economics
B.S., Appalachian State University; M.S., University of North Carolina at Greensboro.

Wallace Daniel Rountree (1972) ..... Associate Professor and Acting Chairman of Business Administration
B.A., Duke University; M.A., University of North Carolina at Greensboro; Ph.D., Louisiana State University. *Graduate Faculty.*

Melvin Roy (1973) ..... Associate Professor of Business Education and Office Administration
B.S., M.A., Kansas State Teachers College; Ph.D., University of Northern Colorado.

Raymond S. Ruble (1970) ..... Assistant Professor of Philosophy and Religion
B.A., M.A., Northern Illinois University; Ph.D., University of Wisconsin. *Graduate Faculty.*

Robert Terry Sack (1972) ..... Assistant Professor of Counselor Education and Research
B.A., University of Michigan; M.A., Western Michigan University; Ph.D., Purdue University. *Graduate Faculty.*

W. Hoyt Safrit (1950) ..... Assistant Professor of Music
B.S., M.A., Appalachian State University. *Graduate Faculty.*

Paul Sanders (1962) ..... Professor of Mathematical Sciences
B.A., Southeastern State College; M.S., Ph.D., Oklahoma State University. *Graduate Faculty.*

George Freeman Sasser (1972) ..... Instructor in Secondary Education
A.B., University of North Carolina at Chapel Hill; M.Ed., University of South Carolina.

Donald Bishop Saunders (1971) ..... Instructor in History
A.B., Davidson College.

Richard Joseph Schalk (1965) ..... Assistant Professor of Mathematical Sciences
B.S., University of Maryland; M.A., University of Arkansas.

DuMont K. Schmidt (1974) ..... Assistant Director of the Counseling and Psychological Services Center and Assistant Professor of Psychology
B.A., Bethel College; M.S., Kansas State University; Ph.D., University of Maryland.

Henry G. Schneider (1973) ..... Assistant Professor of Psychology
B.A., St. Bonaventure University; M.A., Ph.D., West Virginia University.

Leighton R. Scott, Jr. (1973) ..... Assistant Professor of History
B.A., Haverford; M.A., Pennsylvania State University; Ph.D., Camhridge University.

Carol Shaffer (1974) ..... Assistant Professor of Music
M.S., D.M.A., The Julliard School.

Zeb Vance Shook (1953) ..... Assistant Professor and Acquisitions Librarian
B.S., M.A., Appalachian State University.

Nathaniel Hawthorne Shope (1966) ..... Professor of Administration, Supervision and Higher Education
A.B., Otterhein College; M.A., Ph.D., University of North Carolina at Chapel Hill.

Stephen Joseph Simon (1970) ..... Associate Professor of History
B.A., M.A., Xavier University; Ph.D., Loyola University of Chicago.

Donald Woodfin Sink (1968) ..... Professor of Chemistry and Secondary Education
A.B., Catawba College; Ph.D., University of South Carolina. *Graduate Faculty.*

Joseph Grayson Sloop (1968) ..... Assistant Professor of Industrial Arts and Technical Education
B.S., Western Carolina University; M.A., Appalachian State University. *Graduate Faculty.*

Keener McNeal Smathers (1969) ..... Assistant Professor of Secondary Education
B.A., Wofford College; M.A., Ed.D., Duke University.

Charles David Smith (1968) ..... Assistant Professor of Counselor Education and Research and Registrar
B.A., William and Mary College; M.A., Appalachian State University.

Danny S. Smith (1974) ..... Instructor in Psychology
B.A., Camphell College; M.A., Appalachian State University.

H. Max Smith (1969) ..... Professor of Music
B.Mus., University of Missouri; M.Mus., University of Oklahoma; S.M.D., Union Theological Seminary. *Graduate Faculty.*

James Reaves Smith (1968) ..... Associate Professor of Mathematical Sciences
B.S., Ph.D., University of South Carolina. *Graduate Faculty.*

Robert Earl Snead (1966) ..... Assistant Professor of Secondary Education and Vice Chancellor for Development and Public Affairs
B.S., M.A., Appalachian State University.

Walter Thomas Snipes (1964) ..... Professor and Chairman of Psychology
B.S., Oglethorpe University; M.Ed., Mercer University; Ed.D., University of Georgia. *Graduate Faculty.*

Gwendolyn Jane Snyder (1969) ..... Instructor and Assistant Reference Librarian
B.S., M.A., Appalachian State University.

Robert Walter Soeder (1967) ..... Professor of Chemistry
B.S., Ursinus College; M.S., Ph.D., University of Delaware. *Graduate Faculty.*

Richard E. Sorensen (1972) ..... Associate Professor of Business Administration and Dean of the College of Business
B.S.E.E., Polytechnic Institute of Brooklyn; M.B.A., Ph.D., New York University. *Graduate Faculty.*

Charles Caudill Speer (1970) ..... Assistant Professor of Accounting and Finance and Assistant Dean of the College of Business
B.S., M.B.A., East Tennessee State University.

William Gilbert Spencer (1951) ..... Professor of Music
B.Mus.Ed., Northwestern University; M.A., Ed.D., Teachers College, Columbia University.

Richard L. Stahl (1974) ..... Assistant Professor of Human Resources
B.A., M.A., University of Southern Florida; Ph.D., Florida State University.

Dan N. Stallings (1972) ..... Adjunct Assistant Professor of Administration, Supervision and Higher Education
B.S., Appalachian State University; M.Ed., Ed.D., University of North Carolina at Chapel Hill.

Frank Richard Steckel (1962) ..... Professor and Chairman of Industrial Arts and Technical Education
B.S., M.S., University of North Dakota. *Graduate Faculty.*

William Leroy Steinbrecher (1970) ..... Professor of Health, Physical Education and Recreation
A.B., B.S., Valparaiso University; M.S., Indiana University; Ed.D., Florida State University. *Graduate Faculty.*

Roger J. Stilling (1974) ..... Associate Professor of English
B.A., Elon College; M.A., University of South Carolina; Ph.D., Trinity College.

H. Daniel Stillwell (1971) ..... Professor of Geography
B.S., M.F., Duke University; Ph.D., Michigan State University. *Graduate Faculty.*

James William Stines (1968) ..... Professor of Philosophy and Religion
B.A., Wake Forest University; B.D., Southern Baptist Theological Seminary; Ph.D., Duke University. *Graduate Faculty.*

Joyce Peterson Stines (1968) ..... Assistant Professor of Home Economics
B.S., University of Arkansas; M.Ed., University of North Carolina at Chapel Hill.

Mabel Margaret Stoner (1971) ..... Associate Professor of Home Economics
B.S., West Virginia University; M.Ed., Pennsylvania State College.

Benjamin Franklin Strickland (1962) ..... Professor of Counselor Education and Research and Assistant Dean of the Graduate School
B.S., Wake Forest University; M.Ed., Ed.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

William Claudius Strickland (1966) ..... Professor of Philosophy and Religion and Dean of the College of Arts and Sciences
A.B., John B. Stetson University; B.D., Th.D., Southern Baptist Theological Seminary. *Graduate Faculty.*

Beauregard Stubblefield (1971) ..... Professor of Mathematical Sciences
B.S., M.A., Prairie View University; M.S., Ph.D., University of Michigan. *Graduate Faculty.*

Marianne Stevens Suggs (1971) ..... Instructor in Art
B.S., Appalachian State University; M.A., Florida State University.

Albert Benjamin Suttle, Jr. (1968) ..... Instructor in Chemistry
B.S., United States Military Academy; M.S., University of North Carolina at Chapel Hill.

Carl David Sutton (1970) ..... Assistant Professor of Political Science
B.A., Manchester College; C.P., Ph.D., Indiana University. *Graduate Faculty.*

Orus Richard Sutton (1956) ..... Professor and Chairman of Business Education and Office Administration
B.S., Tennessee Technical University; M.A., Northwestern University; Ed.D., University of Tennessee. *Graduate Faculty.*

Guy Timothy Swain (1972) ..... Associate Professor of Administration, Supervision and Higher Education
B.S., High Point College; M.A., Appalachian State University; Ed.D., Duke University. *Graduate Faculty.*

Thomas William Swem (1972) ..... Assistant Professor of Human Resources
B.S., M.A., University of Denver; Ed.D., University of New Mexico. *Graduate Faculty.*

Joyce Tallant (1968) ..... Assistant Professor of Music
B.M., Louisiana State University; M.Ed., Appalachian State University.

Frank R. Terrant, Jr. (1972) ..... Assistant Professor of Psychology
B.A., M.S., Ph.D., Ohio University. *Graduate Faculty.*

Margaret Joan Terry (1973) ..... Associate Professor of Home Economics
B.A., M.Ed., East Texas State University; Ph.D., Texas Woman's University.

Sam George Terry (1971) ..... Associate Professor of English
B.A., Baylor University; Ph.D., Florida State University. *Graduate Faculty.*

John E. Thomas (1974) ..... Vice Chancellor for Academic Affairs and Professor of Business Administration
B.S.E.E., University of Kansas; J.D., University of Missouri; M.S., D.B.A., Florida State University.

Roger Evan Thomas (1950) ... Professor of Health, Physical Education and Recreation
B.S., M.Ed., Springfield College. *Graduate Faculty.*

Roy E. Thomas (1974) ..... Associate Professor of Business Administration
B.S., University of Arkansas; Ph.D., University of Texas.

Vera Ellen Ball Thomas (1964) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., Carson-Newman College; M.S., University of Tennessee.

Rebecca McCotter Tomlinson (1960) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., Appalachian State University; M.A., George Peabody College; Dir.P.E., Indiana University. *Graduate Faculty.*

James R. Tompkins (1974) ..... Assistant Professor in Human Resources
A.B., Mount St. Mary's College; A.M., Niagara University; Ph.D., Catholic University.

Carole S. Trimpey (1974) ..... Part-time Instructor in English
B.S., Middle Tennessee State University; M.A., University of Arkansas.

John Eccles Trimpey (1968) ..... Associate Professor of English
B.A., Ball State University; M.A., University of Arkansas; Ph.D., Ohio University. *Graduate Faculty.*

Ned Reeves Trivette (1957) ..... Assistant Professor of Business Administration and Vice Chancellor for Business Affairs
B.S., Appalachian State University; M.S., Florida State University.

Kathryn Croft Tully (1955) ..... Associate Professor of Business Education and Office Administration
B.A., Concord College; M.A., Columbia University. *Graduate Faculty.*

Edward Thomas Turner (1968) ..... Professor of Health, Physical Education and Recreation
B.S., Pennsylvania State University; M.A., Ph.D., University of Maryland. *Graduate Faculty.*

William N. Turpin (1974) ..... Assistant Professor of Economics
A.B., Dartmouth College; B.A., M.A., Oriel College.

Roland Luther Tuttle, Jr. (1970) ..... Assistant Professor of Secondary Education
A.B., University of North Carolina at Chapel Hill; M.A., Columbia University; Ed.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Hubert R. Vance (1974) ..... Assistant Professor in Human Resources
B.S., M.A., East Tennessee State University; Ph.D., Ohio State University.

Frans van der Bogert (1973) ..... Associate Professor of Philosophy and Religion
B.A., Swarthmore College; Ph.D., Cornell University. *Graduate Faculty.*

William S. Vanderpool, Jr. (1973) ..... Professor of Business Education and Office Administration
B.A., Duke University; M.A., Ph.D., Louisiana State University.

Erwing Winningham Wadsworth (1968) ..... Professor of Secondary Education
B.S., Troy State University; M.S., Ed.D., Auburn University. *Graduate Faculty.*

Russell E. Walls (1974) ..... Associate Professor of Psychology
B.A., Davidson College; M.A., Ph.D., University of North Carolina at Chapel Hill.

Robert L. Ward (1971) ..... Instructor in Health, Physical Education and Recreation
B.S., M.A., Appalachian State University.

Wilber Henry Ward III (1971) ..... Assistant Professor of English
B.A., University of Alabama; M.A., Ph.D., University of Tennessee. *Graduate Faculty.*

Sherry Waterworth (1970) ..... Assistant Professor of Art
B.S., Towson State College; M.F.A., Ohio University.

Annette Watkins (1973) ..... Instructor in Music
B.Mus., Weaton College; M.Mus., University of Illinois.

Jan C. Watson (1967) ..... Assistant Professor of Health, Physical Education and Recreation
B.S., Winthrop College; M.A., Appalachian State University.

William C. Weaver (1973) ..... Instructor in Business Administration
B.A., Livingston University; M.B.A., Loyola University.

Fred Webb, Jr. (1968) ..... Professor and Chairman of Geology
A.B., Duke University; M.S., Ph.D., Virginia Technical Institute. *Graduate Faculty.*

Omri Kenneth Webb, Jr. (1962) ..... Professor of Philosophy and Religion and Dean of the General College
B.A., The Citadel; B.D., Southern Baptist Theological Seminary; Ph.D., Duke University. *Graduate Faculty.*

Linda Welden (1973) ..... Assistant Professor of Speech and Secondary Education
B.S., M.S., Georgia Southern University.

Gerald L. Welker (1974) ..... Associate Professor of Music
B.M., M.M., A.M.D., Eastman School of Music.

Jay A. Wentworth (1972) ..... Assistant Professor of English
B.A., Ohio Wesleyan University; B.D., Chicago Theological Seminary; M.A., Ph.D., Northwestern University.

George R. Wesley (1963) ..... Professor of Psychology
B.A., University of Houston; M.A., Ph.D., University of Denver. *Graduate Faculty.*

John Foster West (1968) ..... Associate Professor of English
A.B., M.A., University of North Carolina at Chapel Hill.

Robert Holt West (1967) ..... Associate Professor of Business Education and Office Administration
A.B., Duke University; M.Ed., Temple University; J.D., University of Miami. *Graduate Faculty.*

Herbert W. Wey (1969) ..... Professor of Administration, Supervision and Higher Education and Chancellor of the University
B.S., M.A., Indiana State University; Ed.D., Indiana University.

Elmer Russell White (1963) ..... Associate Professor of Music
A.B., Marshall University; M.F.A., Ohio University; Ed.D., Teachers College, Columbia University. *Graduate Faculty.*

Joan Lynn White (1974) ..... Part-time Instructor in Music
B.M., Youngstown State University; M.A., Appalachian State University.

Patricia D. White-Beaver (1974) ..... Assistant Professor of Sociology and Anthropology
B.A., Duke University.

Janice R. Whitener (1961) ..... Assistant Professor of Home Economics
B.S., M.S., University of North Carolina at Greensboro.

Rogers Vance Whitener (1959) ..... Associate Professor of English
B.S., Appalachian State University; M.A., University of Florida.

Peggy S. Whittaker (1967) ..... Instructor in Counselor Education and Research and General College Advisor
B.S., M.A., Appalachian State University.

Joe W. Widenhouse, Jr. (1973) ..... Associate Professor of Administration, Supervision and Higher Education
B.S., High Point College; M.Ed., University of North Carolina at Chapel Hill; Ed.D., North Carolina State University.

Cratis Dearl Williams (1942) ..... Professor of English and Dean of the Graduate School
A.B., M.A., University of Kentucky; Ph.D., New York University. *Graduate Faculty.*

Hubertien Helen Williams (1970) ..... Professor of English
B.A., University of New Mexico; M.A., Ph.D., Bowling Green State University. *Graduate Faculty.*

John F. Williams (1966) ..... Professor of Mathematical Sciences
A.B., M.A., University of Tennessee; Ed.D., Columbia University. *Graduate Faculty.*

Thomas Marvin Williamsen (1972) ..... Instructor in History
B.S., Colorado State University; M.A., Duke University.

Jerry Wayne Williamson (1970) ..... Assistant Professor of English
B.A., Wayland College; M.A., Ph.D., University of Utah. *Graduate Faculty.*

Matt Winn Williamson (1970) ..... Professor of Political Science
B.A., M.A., Ph.D., University of Virginia. *Graduate Faculty.*

Fred Allen Wilson (1972) ..... Assistant Professor of Psychology
B.A., M.Ed., University of Mississippi; Ed.D., University of Tennessee. *Graduate Faculty.*

John Bernhardt Wilson (1970) ..... Assistant Professor of Business Administration
B.A., Princeton University; B.D., Union Theological Seminary; M.B.A., Harvard Graduate School. *Graduate Faculty.*

Richard Burton Wilson (1967) ..... Assistant Professor of Elementary Education
B.A., M.E., M.S.P.H., University of North Carolina at Chapel Hill.

Roger Andrew Winsor (1971) ..... Assistant Professor of Geography
B.S., Shippensburg State College; M.A., Arizona State University. *Graduate Faculty.*

George Michael Wise (1972) ..... Instructor in Sociology and Anthropology
B.A., University of North Carolina at Chapel Hill; M.S., North Carolina State University.

Larry W. Woodrow (1966) ..... Associate Professor of Elementary Education
B.S., Appalachian State University; M.A.T., Ed.D., University of North Carolina at Chapel Hill. *Graduate Faculty.*

Carolyn Worley (1973) ..... Instructor in Human Resources
B.S., M.A., Appalachian State University.

Frank E. Wozniak (1973) ..... Assistant Professor of History
B.A., M.A., Ph.D., Stanford University.

Ronald M. Zigli (1974) ..... Assistant Professor of Business Administration
B.S., Ohio State University; M.B.A., Ph.D., Georgia State University.

Gilroy J. Zuckerman (1973) ..... Assistant Professor of Economics
B.A., Harpur College; M.A., Ph.D., North Carolina State University. *Graduate Faculty.*

Faculty Emeriti

Ruby Lavelle Akers, M.A., Associate Professor Emerita of English
John Glen Barden, Ph.D., Professor Emeritus of Education
Helen Burch, M.A., Professor Emerita of Geology
May E. Denton, M.S., Associate Professor Emerita of Chemistry
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